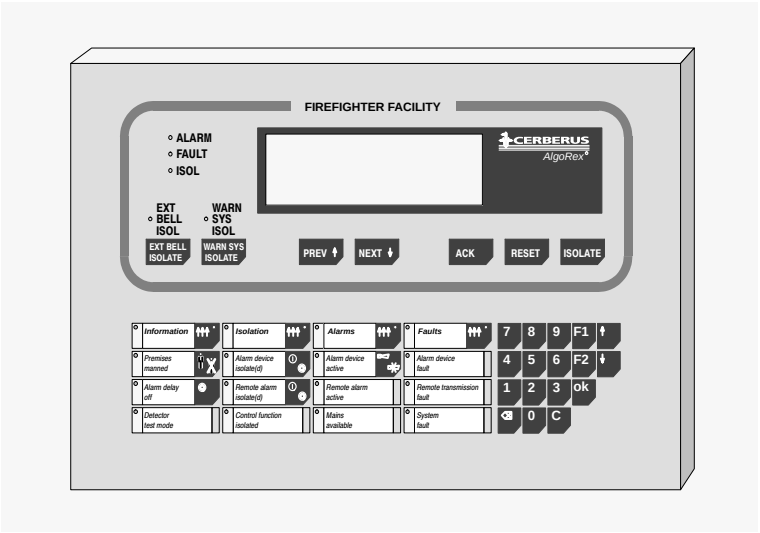
SIEMENS



Cerberus® CS1145
Fire detection system

Operating instructions

Software version EP5-Z3

Cerberus
Security
for People
and Assets

Siemens Building Technologies
Cerberus Division

Data and design subject to change without notice. / Supply subject to availability.
© Copyright by
Siemens Building Technologies AG

We reserve all rights in this document and in the subject thereof. By acceptance of the document the recipient acknowledges these rights and undertakes not to publish the document nor the subject thereof in full or in part, nor to make them available to any third party without our prior express written authorization, nor to use it for any purpose other than for which it was delivered to him.

CERBERUS CS1145 series Fire Indicator Panel. Model Number CI1145

Approved to AS4428.1

Siemens Building Technologies
Cerberus Division

CH–8708 Männedorf
Switzerland

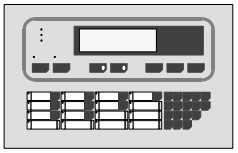
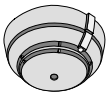
411 Ferntree Gully Road
Mount Waverley 3149
Australia
Tel: 03 9550 9245

Operating instructions CI1145

Introduction 4
Operating access 5
Control console layout 6
Message categories 8
Terminology ’Area’, ’Section’ and ’Zone’ 9
Normal operation 10
Mains available 10
Operating states ’Manned’ and ’Unmanned’ 11
Quick reference instruction 12
Cerberus Alarm Concept 13
Alarm – general information 14
☞ Alarm – what to do ? 16
Detector zone isolation 18
Detector isolation 20
Fault 21
Detector test 22
Installation test 26
Renovation mode 27
Remote transmission isolation 28
Alarm devices isolation 29
Printer isolation 30
Printer paper replenishing 31
Lamp test 32
Alarm counter 33
Event memory 34
Set clock and date 35
Overview operating menus 36

Introduction

This Cerberus fire detection installation consists of the following components:

System components		Equipped
Operating console 	Type 'CI1145'	❒
Series of fire detectors ? 	Interactive detectors	❒
	Addressable detectors	❒
	Collective detectors	❒
Includes also extinguishing SECTIONS ?	CO_2	❒
	N_2	❒
	water	❒
	.....	❒
Printer connected ?	Location	❒ yes ❒ no ....
Remote transmission connected ?		❒ yes ❒ no
Cerberus Alarm Concept activated ? (operating 'manned' / 'unmanned' used ?)		❒ yes ❒ no
Multi area installation ?		❒ yes ❒ no
Duration of emergency power operation ?		..... hours

This table to be filled in by the commissioning engineer.

Note

Make sure that all system operators of the fire detection installation are sufficiently instructed. If there is any doubt about any function or measures to be taken call the local service organization for assistance.

Operating access

General:

The control console is protected by a front door against unauthorized or unintentional manipulation. So no further password protection is necessary except for some special functions which are restricted to the service engineer.

Possible access levels:

- Access level 1 **Everybody** ➜ *access to all user functions*
- Access level 3 **Service** ➜ *full privileges (service engineer only)*

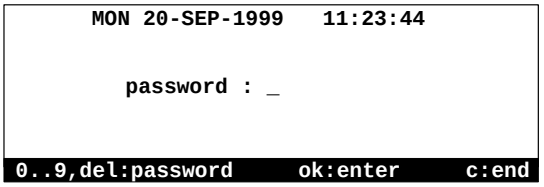
How to get USER operating access:

Just open the front door. Immediate access to all user functions is possible.
➜ *See 'Overview operating menus' on pages 36 up to 41*

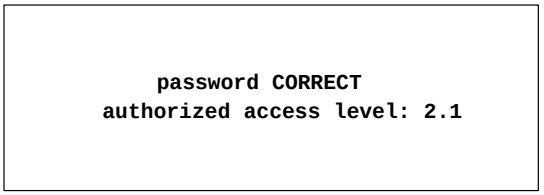
How to get SERVICE ENGINEER operating access:

Log in

1. Type in your service password via keypad
(an entering box is displayed)
and press ok

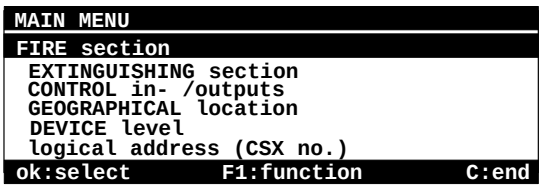


➜ *The confirmation «password CORRECT» or «password INCORRECT» is displayed*



➜ *To cancel keying errors press* C

2. Press F2

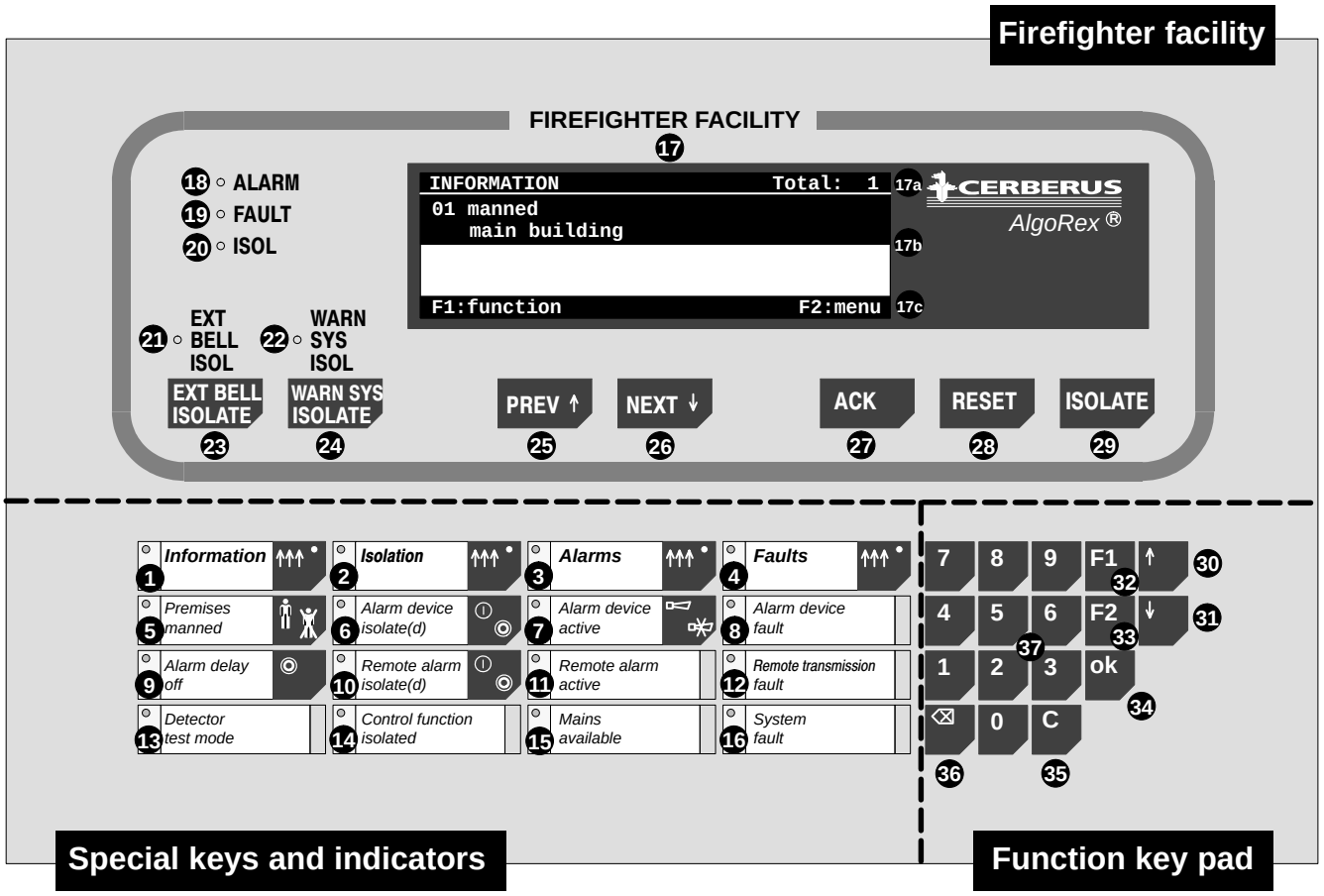


3. Start operation

Log out

Log out is not required because operating is automatically inhibited if no key is pressed within a certain time *(programmable timeout 2...10 minutes).*

Control console layout



Special keys and indicators

List Handling

1	**Information** indicator & key	Information message list handling & indication	see page 8
2	**Isolation** indicator & key	Isolation message list handling & indication	see page 8
3	**Alarm** indicator & key	Alarm message list handling & indication	see page 8
4	**Fault** indicator & key	Fault message list handling & indication	see page 8

Operating states

5	**Premises manned** indicator & key	Premises manned / unmanned switch over & indication	see page 11

Alarm devices

6	**Alarm device isolate(d)** indicator & key	Isolation / de–isolation of alarm devices	see page 29
7	**Alarm device active** indicator & key	Activation / deactivation of Alarm devices	
8	**Alarm device fault** indicator	Indicates fault of alarm devices	

Remote Transmission

9	**Alarm delay off** indicator & key	Immediately initiates the alarm remote transmission	see page 16
10	**Remote alarm isolate(d)** indicator & key	Disables alarm remote transmission	see page 28
11	**Remote alarm active** indicator	Indicates active alarm remote transmission	
12	**Remote transmission fault** indicator	Indicates faults of the alarm remote transmission	

Control and System

13	**Detector test mode** indicator	Indicates zones are in mode 'detector test'	see page 22
14	**Control function isolated** indicator	Indicates isolated control functions	
15	**Mains available** indicator	Indicates main power supply normal operation	see page 10
16	**System fault** indicator	Indicates fatal system fault	

Firefighter facility

17 Text display with yellow illumination. *dark*, if no danger message («Alarm») is pending and no operator activity is in progress.

17a	**Information bar**	Information is context dependent
17b	**Message part**	e.g. abnormal states or menu items to be selected
17c	**Instruction bar**	Indicates the currently possible actions

Common indicators

18	**ALARM** indicator	Indicates pending zone alarms (blinking if unacknowledged)
19	**FAULT** indicator	Indicates pending zone faults (blinking if unacknowledged)
20	**ISOL** indicator	Indicates pending zone isolations (blinking if unacknowledged)

Sound handling

21	**EXT BELL ISOL** indicator	Indicates external bells isolated
22	**WARN SYS ISOL** indicator	Indicates warning system isolated
23	EXT BELL ISOLATE key	To isolate/de–isolate the external bells
24	WARN SYS ISOLATE key	To isolate/de–isolate the warning system

Message scrolling

25	PREV↑ key	To scroll messages upwards in the text display
26	NEXT↓ key	To scroll messages downwards in the text display

Zone handling

27	ACK key	To acknowledge new messages (e.g. alarms, faults)
28	RESET key	To reset alarms
29	ISOLATE key	To isolate / de–isolate zones

Function key pad

Message scrolling

30	↑ **Scroll up** key	Corresponds to key 25 PREV↑ on Firefighter facility
31	↓ **Scroll down** key	Corresponds to key 26 NEXT↓ on Firefighter facility

Message & display control

32	F1 key	Calls context menu (corresponding function list)	
33	F2 key	Calls main menu	see page 12
34	ok key	Displays intervention text or expands messages	
35	⌫ **Delete** key	Deletes one character to the left of the cursor	
36	C **Clear** key	Cancels current input	

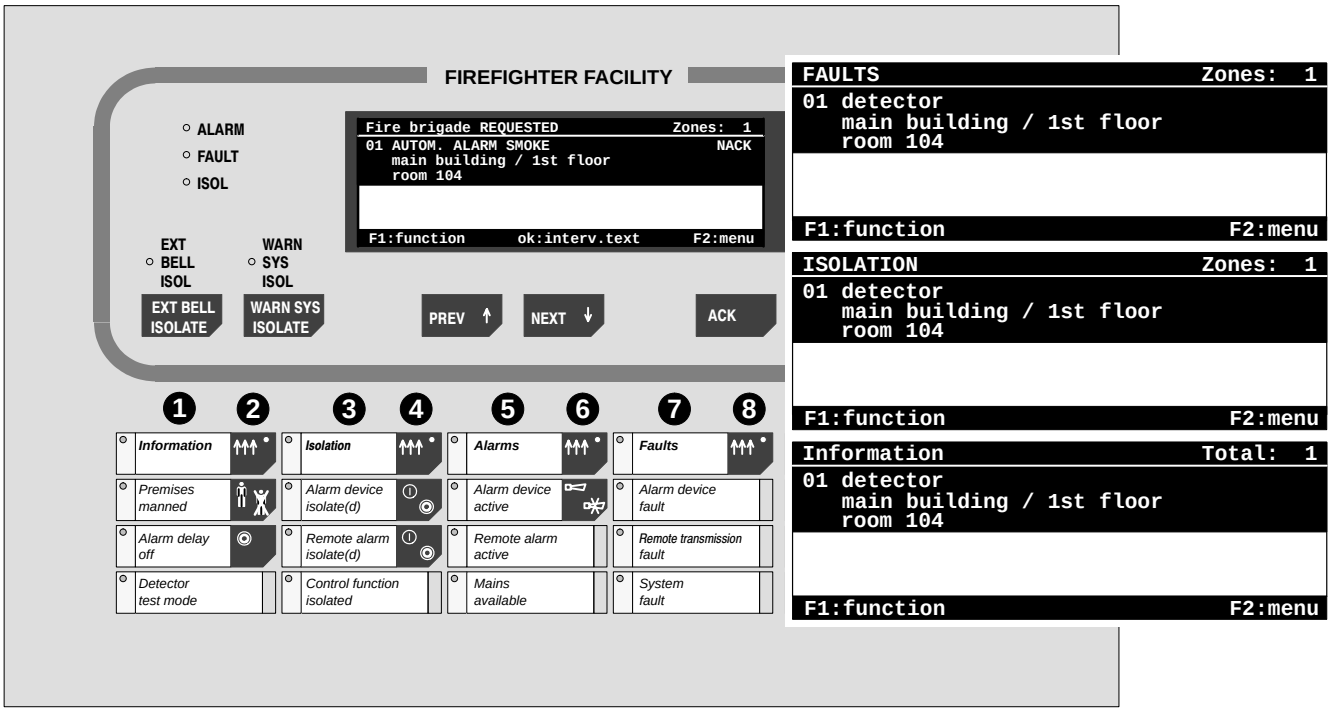
Numeric keys

37	0..9 **Numeric keys**	To set clock and date e.g.	see page 35

Message categories

There are the following message categories:

- ***Alarms*** ➜ danger messages acquired by the system Priority 1
- ***Faults*** ➜ messages that require an immediate response Priority 2
- ***Isolation*** ➜ system components out of service Priority 3
- ***Information*** ➜ messages that do not require an immediate response Priority 4



1 **Information** display field

Press key **2** to display the **information** list.

– Certain information messages are displayed spontaneously (e.g. warnings) if no message with a higher priority is pending.

3 **Isolation** display field

➜*The indicator is blinking if there are unacknowledged messages in then list*

Press key **4** to display the list of **disabled system components**.

– This message type is displayed spontaneously if no message with a higher priority is pending.

5 **Alarms** display field

➜*The indicator is blinking if there are unacknowledged messages in then list*

Press key **6** to display the list of **alarms**.

– This message type is always displayed spontaneously and overwrites all other message categories

7 **Faults** display field

➜*The indicator is blinking if there are unacknowledged messages in then list*

Press key **8** to display the list of existing **faults**.

– This message type is displayed spontaneously if no message with a higher priority is pending.

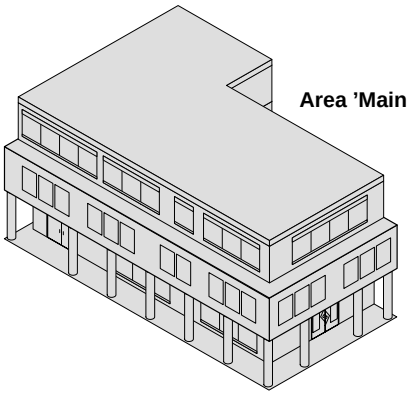
Note

Switching from one message category to another is always possible by pressing the corresponding selection key. If a lower priority is selected, the system always goes back after a short time-out, to that message category with the highest priority.

Terminology ’Area’, ’Section’ and ’Zone’

What is an «Area»?

It normally covers **a whole building** or part of a building and represents also the operating level.
This is the logical designation for **several, usually adjacent sections**



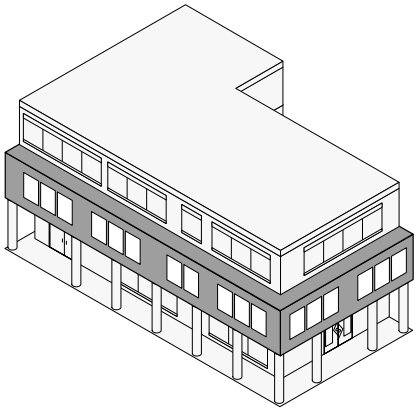
Area ’Main building’

```
AREA
01 main building
02 factory


ok:section      F2:menu      F1:function
```

What is a «Section»?

It normally covers **a floor** or part of a floor in a building.
This is the logical designation for **several, usually adjacent zones**



Section «1st floor»

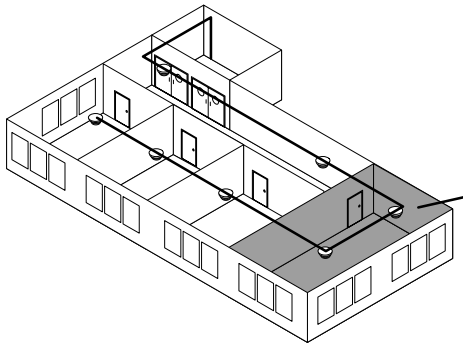
```
SECTION ’fire’
01 ground floor
02 first floor
03 second floor


ok:zone         F2:area      F1:function
```

What is a «Zone»?

It normally comprises **one room** of a building (with collective detectors => several rooms)
It is the logical designation of a **detector group containing at least one detector**
Automatic fire detectors, manual call points and control outputs are always assigned to different ZONES
For this reason we have

- *zones comprising **automatic fire detectors***
- *zones comprising **manual call points***
- *zones comprising **control outputs***



Zone «room 104»

```
ZONES’fire’
01 room 103
02 room 104
03 room 105


ok:element      F2:section   F1:function
```

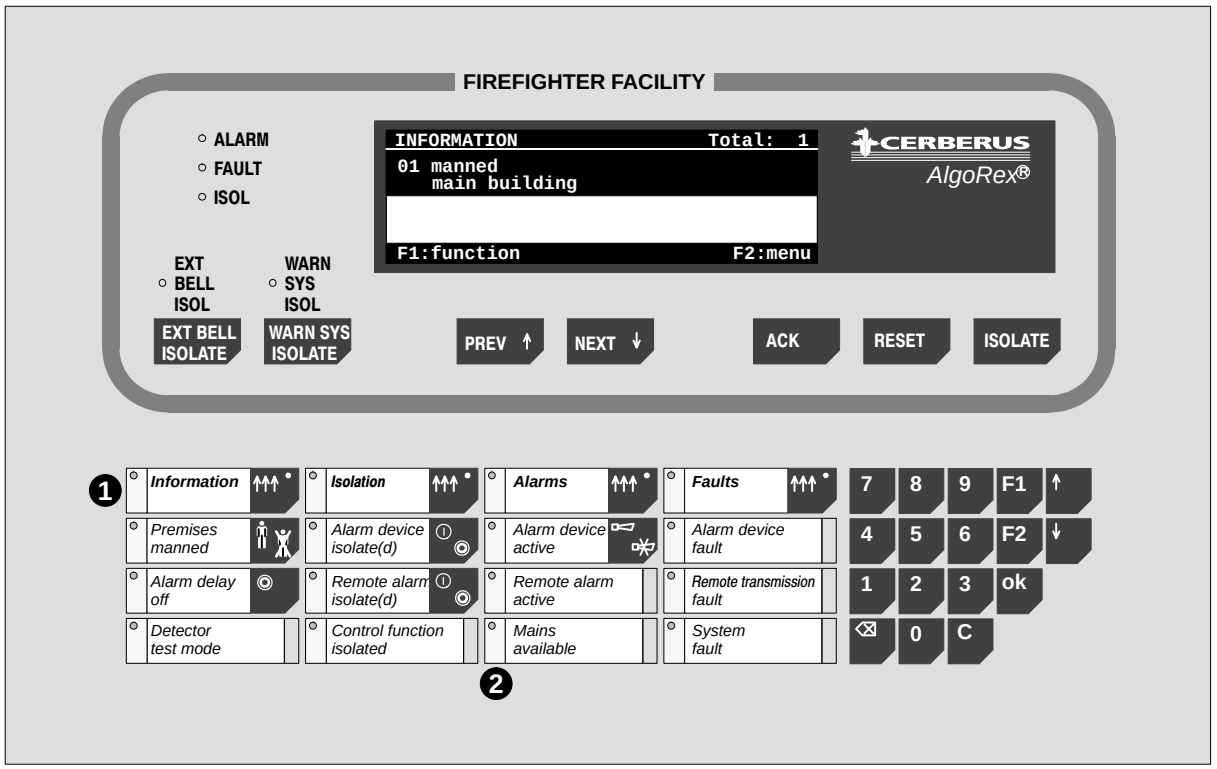
Normal operation / Mains available

What is «Normal operation»?

- The system is ready for receiving danger messages
- No alarm and no fault messages are pending and no part of the system is isolated

➜ *The system can either be in state «manned» or «unmanned» (see page 11)*

➜ *The operating states «manned» / «unmanned» are information messages. This means that even in «normal operation» at least this message is always pending in the information list* ❶



What is «Mains available»?

The green indicator ❷ in the display field «Mains available» shows the state of the main power supply:

- It is ON as long as the main power supply is in normal operation.
- It is OFF if the the main power supply fails and the control unit runs on battery.

Operating states ’manned’ and ’unmanned’

Is the Cerberus Alarm Concept activated?	❒ *Yes* ❒ *No*

Basic rules

The operating states «Manned» and «Unmanned» are only relevant for systems in which the signals for automatic fire detectors and manual call points are processed differently, that means, the *Cerberus Alarm Concept* is activated. The switchover can be performed manually or automatically.

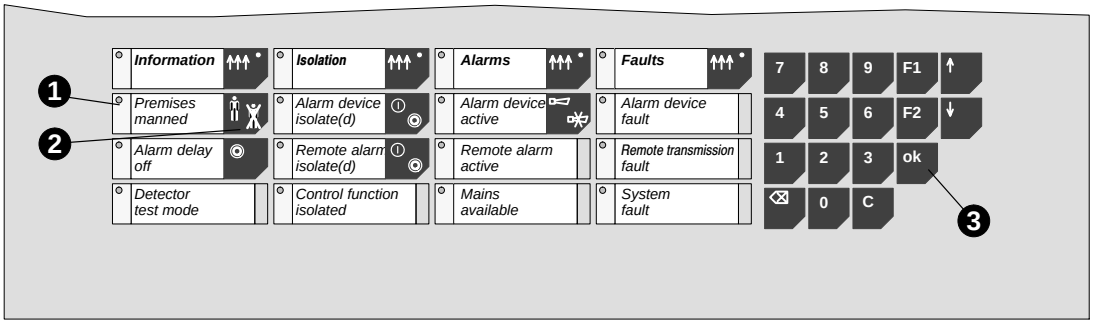
Operating state «manned»

Means: The **operating person** responsible for «Alarm» investigation **is on site**.

Indicator ❶ in the display field «Premises manned» is ON.

Operating state «unmanned»

Means: The responsible **operating person is <u>not</u> on site.**

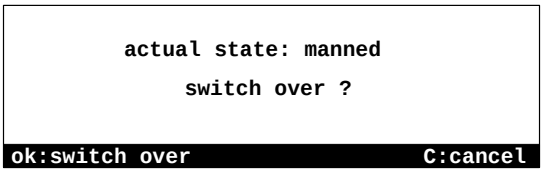


Manual switch over from «manned» to «unmanned» or vice versa

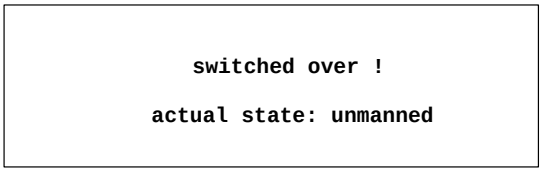
Note

For several areas, this function works only, if **all** areas are in the same state (unmanned or manned).
With this function you switch over **all** areas from manned to unmanned or vice versa.

1. Switch over by pressing key ❷ (toggling key)
➜*Confirmation prompt is displayed*



2. Confirm the switchover by pressing the ok key ❸
➜*The new operating state is shown in the display*
➜*In the «manned mode» the state indicator ❶ is ON*



Note

The switchover from «manned» to «unmanned» (or vice versa) is also possible via the menu.
If several organizationally autonomous systems are operated via a common multi-area terminal (areas with manned state, other areas with unmanned state) the state can only be changed via the menu, the *«Premises manned» state indicator ❶ is flashing.*

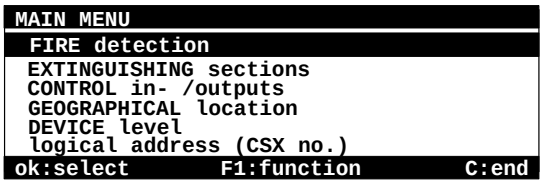
Automatic switchover

From «unmanned» to «manned»:	❒ *No*	❒ *Yes, time =* .....
From «manned» to «unmanned»:	❒ *No*	❒ *Yes, time =* .....

Quick reference instructions

How to start operating ?

1. Press F2
➜*The MAIN MENU is displayed*



2. Select desired function in 'MAIN MENU' by using the arrow keys ↑ and ↓

3. Then press ok
➜*option selected is shown inverse*

Function **'FIRE detection'**
➜ to navigate to a fire detection SECTION or ZONE or ELEMENT (= detector) in order to
- isolate or reactivate detector zones
- set detector zones on mode 'detector test' or to terminate 'detector test' , etc.

Function **'Extinguishing section'**
➜ to navigate to an extinguishing SECTION in order to
- isolate detector zones related to the selected extinguishing section
- set detectors related to the selected extinguishing section on mode 'detector test' or to terminate
- test the extinguishing 'alarm horn' or 'warning panel' , etc.

Function **'CONTROL in-/ outputs'**
➜ to select a control SECTION or ZONE in order to
- isolate or reactivate a fire control function (e.g. air-conditioning shut down, etc.)
- initiate manually or deactivate a fire control function, etc.

Function **'GEOGRAPHICAL location'**
➜ to select any SECTION or ZONE in order to
- isolate or reactivate a zone, etc.

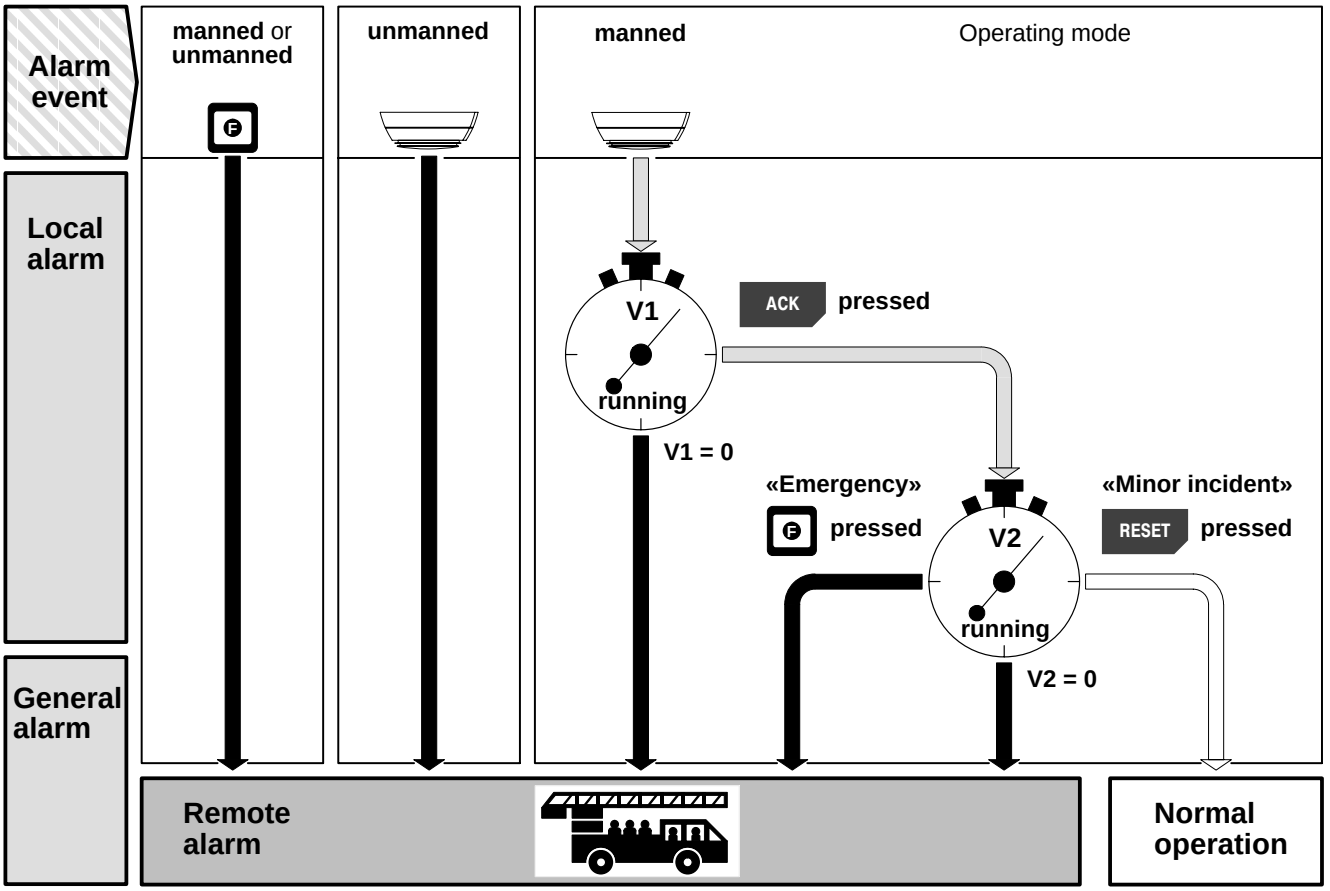
Function **'DEVICE level'**
➜ to initiate a specific function such as
- lamp test
- printer test, also to isolate or de–isolate the printer, etc.

Function **'LOGICAL address (CSX. no.)'**
➜ to jump directly to a known logical location
- the complete address (AREA no./ SECTION no./ ZONE no./ELEMENT no.) must be known

Notes
- Full list of all possible functions see 'Overview operating menus' on pages 36 to 41
- The text 'MAIN MENU' is sometimes abbreviated to 'MENU' because of the limited text length in the display

How does the *Cerberus Alarm Concept* function?

When the system operates in «manned» mode, manual call points and automatic fire detectors trigger **different actions** in the event of an alarm.



Alarm acknowledgement time «V1»

V1 = ... minutes

- This is a countdown time that is active for automatic detectors when the system operates in «manned» mode.
- Checks whether someone acknowledges the danger alarm message **within the preprogrammed time**.
- On expiration of this time the alarm is transmitted to the fire department.
- The remaining time is displayed in minutes and seconds.

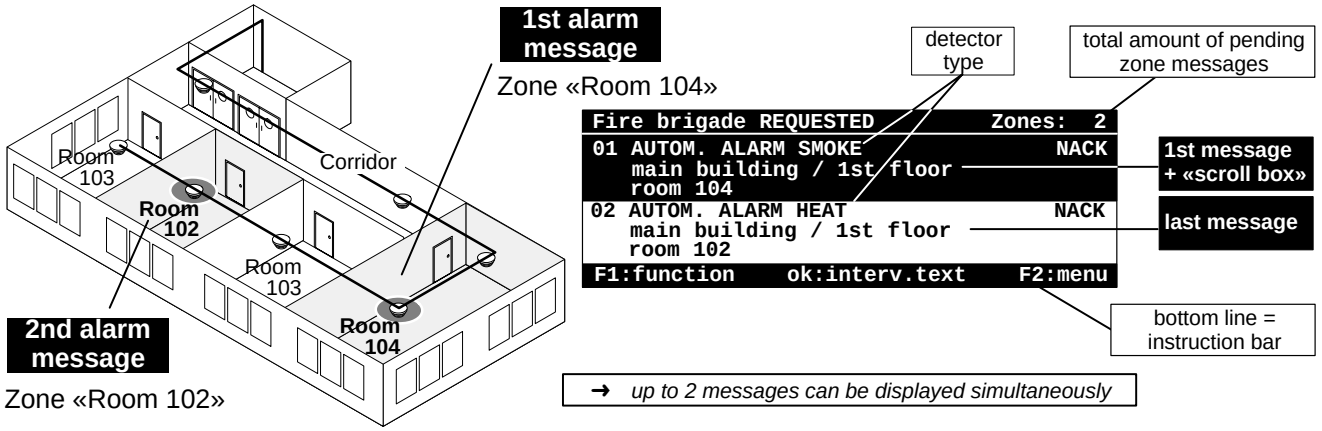
Alarm investigation time «V2»

V2 = ... minutes

- This is a countdown time that is active for automatic detectors when the system operates in «manned» mode.
- Limits the time for **investigating the fire location** to an individually programmed time.
- On expiration of this time the alarm is transmitted to the fire department.
- The remaining time is displayed in minutes and seconds.
- In case of minor incidents, an alarm must be reset before V2 expires.

Alarm – general information

How are alarm messages shown in the text display?



Text Display

The display consists of 3 parts:

- Information bar on the top line
  Reports the status of remote transmission. One of the following texts is indicated:
  - Fire brigade REQUESTED
  - FIRE BRIGADE in ... min
  - CALL fire brigade: Tel. 000
- Message part
  The display can show 2 messages simultaneously:
  - Upper section shows ***1st message***
  - Lower section shows ***last message***
- Instruction bar
  Indicates the currently possible actions.

Message scrolling

If more than 2 messages have been reported, ***scrolling*** becomes necessary in order to show all reported messages in the 'upper section' (one after the other).
Scrolling is done by PREV↑ and NEXT↓ or with the arrow keys ↑ and ↓.

Message text

The message consists of 3 lines:

- First line:
  - A message number (which does not necessarily correspond to the alarm order)
  - The kind of detection device: automatic detector (SMOKE, HEAT, FLAME) or manual call point (MCP). Isolated alarms have the additional text 'ISOL'
  - The Message state (see below)
- Second line:
  - Customer text line 1 with programmable additional location information (logical address of the alarming zone)
- Third line:
  - Customer text line 2

Message state

Most messages have to be acknowledged. If they occur, they are in the state 'not acknowledged'. By pressing ACK they change to the 'acknowledged' state. The state is indicated by the texts 'NACK' for 'not acknowledged' and 'ACKD' for 'acknowledged' at the end of the first line of the message.
Messages which do not have to be acknowledged do not have these texts.

Message order

Messages are presented in the following order:

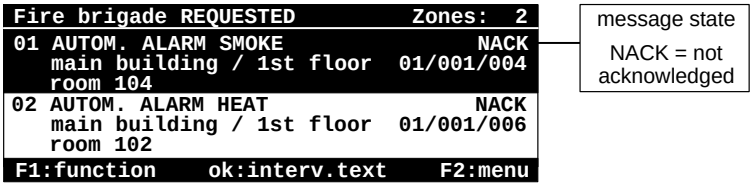
1. unacknowledged alarms
2. acknowledged alarms
3. isolated alarms

Within these categories the messages are sorted chronologically.

Acknowledge

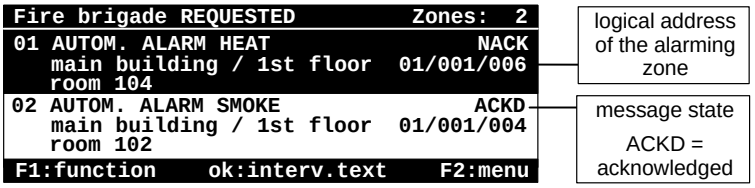
➜ *Each message has to be acknowledged separately*

1. Select the desired unacknowledged message
2. Press [ACK]
   ➜ *The message state text changes from 'NACK' to 'ACKD'*
   ➜ *The unacknowledged message is placed on top*



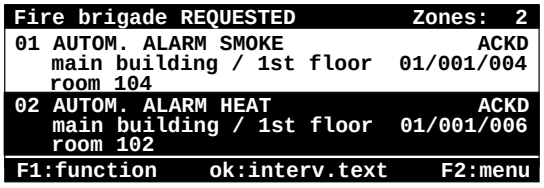
Supplementary information

The logical address of the alarming zone (if programmed)

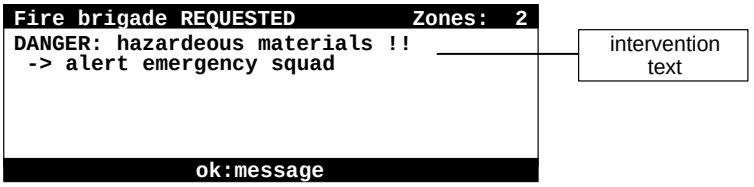


How can an intervention text be read out ?

1. Press «Alarms» key and select the desired message by pressing [NEXT↓] or [PREV↑], if necessary (the selected message is displayed in inverted colors)



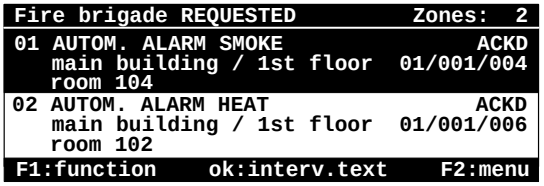
2. Press [ok]
   ➜ *The intervention text is displayed (if programmed)*
3. Pressing [ok] again returns back to the original message



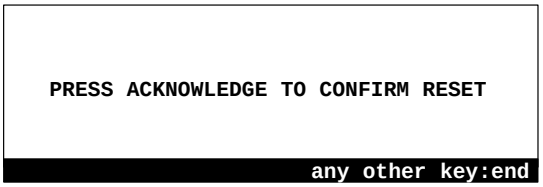
Reset

➜ *Each message has to be reset separately*
➜ *Unacknowledged messages are reset in the same way as acknowledged ones*

1. Select the message to be reset

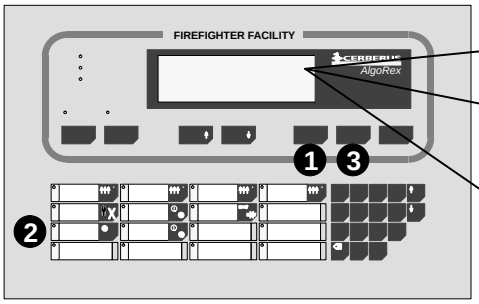


2. Press [RESET]
   ➜ *The confirmation dialog is displayed*
3. Press [ACK] to confirm



Alarm – what to do ?

Top line of display reports status of remote transmission:



'CALL fire brigade: TEL. 000'
.....

'FIRE BRIGADE in .... '
.....

Fire brigade REQUESTED
.....

▶ 'Fire brigade REQUESTED'

→ Alarm is already transmitted

1. Press ACK 1 for each pending alarm message
2. Read the fire location of the 1st alarm in the upper half of the text display field
3. Go to the fire location
4. Decide on «Emergency» or «Minor incident»:

Emergency:

Save people
Fight the fire

Minor incident:

Immediately try to stop the fire brigade
Press RESET 3
and acknowledge by ACK 1
for each pending alarm message
→ *The system reverts to normal operation*

▶ 'FIRE BRIGADE in 4:31 (min)'

→ Alarm will be transmitted in the time indicated

1. Press ACK 1 for each pending alarm message (before time is 0:00)
2. Read the fire location of the 1st alarm in the upper half of the text display field
3. Go to the fire location
4. Decide on «Emergency» or «Minor incident»:

Emergency:

Immediately actuate nearest manual call point or the key 'Alarm delay off' 2
→ *The alarm message is transmitted*

Minor incident:

Immediately press RESET 3
and acknowledge by ACK 1
for each pending alarm message
→ *The system reverts to normal operation*

▶ 'CALL fire brigade: TEL. 000'

1. Press ACK 1 for each pending alarm message
2. Read the fire location of the 1st alarm in the upper half of the text display field
3. Go to the fire location
4. Decide on «Emergency» or «Minor incident»:

Emergency:

Immediately call the fire brigade *(e.g. TEL. 000)*
→ *the alarm message is transmitted*

Minor incident:

Immediately press RESET 3
and acknowledge by ACK 1
for each pending alarm message
→ *The system reverts to normal operation*

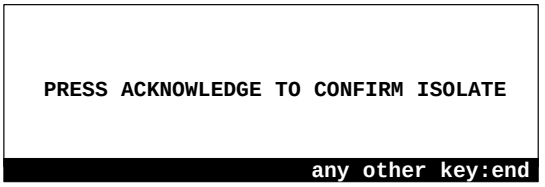
What to do if alarm cannot be reset ?

As long as a detector still detects a fire phenomena (smoke, heat, flame) the alarm **cannot** be reset. In order to remove such an alarm the corresponding detector zone has to be isolated.

ZONE isolation procedure if zone is on alarm (Example ZONE 'fire')

1. Select ZONE on alarm to be isolated

2. Press ISOLATE
➜ *The confirmation dialog is displayed*



3. Press ACK to confirm
➜ *The selected ZONE is isolated*
➜ *It is displayed spontaneously in the Alarms list (if no messages of higher order are pending)*
➜ *The isolated ZONE is as well displayed in the Isolation list*

ZONE de–isolation procedure

1. Select the isolated ZONE in the *alarms* list
➜ *The message is displayed in inverted colors*

2. Press ISOLATE
➜ *The ZONE is reactivated, that is, the isolation is cancelled*

Note

The isolated ZONE may for de–isolation as well be selected in the *Isolation* list

Detector zone, temporary isolation

What is ISOLATION of a ZONE ?

Isolated zones have the following characteristics:

- The zone state (alarm and fault) is evaluated and displayed
- Alarms on isolated zones do NOT activate any control outputs (e.g. warning system, external bell, extinguishing, remote transmission)
- Isolated alarms are identified by the text 'ISOL'

When does a ZONE have to be isolated ?

If zones are NOT in alarm

ZONES equipped with automatic fire detectors or manual call points can be temporarily isolated. This is only necessary in exceptional situations, for example while major construction is in progress:

- ZONE with smoke detectors ➜ if smoke or dust is produced by unusual work
- ZONE with heat detectors ➜ if heat or steam is produced by unusual work
- ZONE with manual call point ➜ if there is a possibility of inadvertent actuation

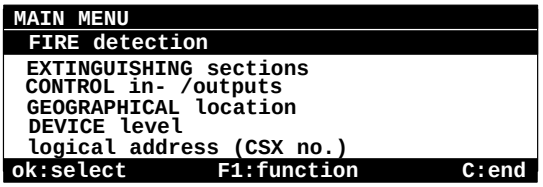
As soon as conditions have returned to normal, ISOLATED ZONES must immediately be de–isolated again.

If zones are in alarm

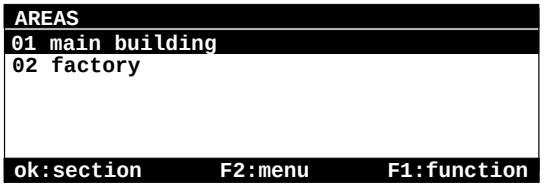
If zones in alarm cannot be reset because they still detect an alarm condition (e.g. smoke) then they can be isolated.
As soon as conditions have returned to normal, ISOLATED ZONES must be immediately switched on again.

ZONE isolation procedure if zone is NOT on alarm (Example ZONE 'fire')

1. Press F2
➜*The MAIN MENU is displayed*

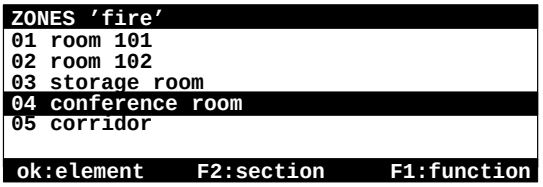


2. Press ok
➜*The AREAS overview is displayed*
Press ↓ to select the desired AREA



3. Press ok
➜*The SECTIONS overview is displayed*
Press ↓ to select the desired SECTION

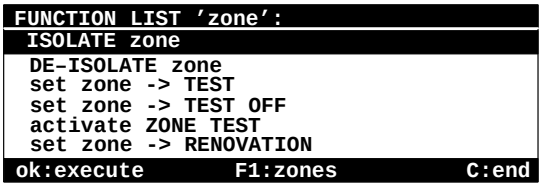
4. Press ok
➜*The ZONES overview is displayed*
Press ↓ to select the desired ZONE



➜ *continued on next page*

5. Press F1
➜ *The FUNCTION LIST 'zone' is displayed*
Select the function 'ISOLATE zone'
Press ok to confirm

➜ *The selected ZONE is isolated*
➜ *It is displayed spontaneously (if no messages of higher priority are pending).*



ZONE reactivation procedure

1. Select the *message category by* pressing the *Isolation* key

2. Select the zone to be de–isolated
➜ *The message is displayed in inverted colors*

3. Press ISOLATE
➜ *The ZONE is reactivated, that is, the isolation is cancelled*

Isolation of individual detectors

When does a detector have to be isolated ?

Only when it is damaged or defective until it is replaced.

Note

An isolated detector **cannot generate any messages**.

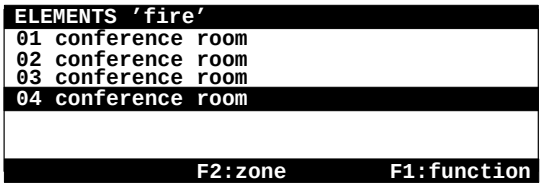
The isolation of detectors only makes sense if the corresponding ZONE is de–isolated

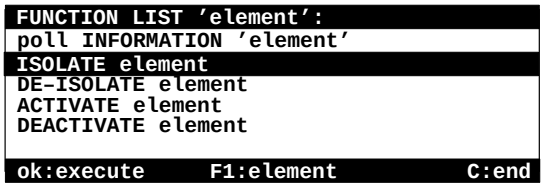
Isolate a detector via the menu

Steps **1 to 4** are identical to «Zone isolation» as described above

5. Press ok
➜ *The ELEMENTS summary is displayed*
Press ↓ to select the desired ELEMENT

6. Press F1
➜ *The FUNCTION LIST 'element' is displayed*
Press ↓ to select the function «ISOLATE element» and press ok
➜ *The selected detector is isolated and displayed spontaneously if no messages of higher priority are pending.*





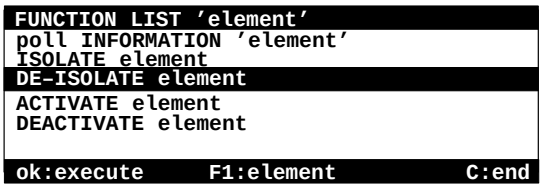
Note

If ***all*** elements of a zone are isolated, the *corresponding* ***zone*** is automatically ***isolated*** as well.

Reactivate a detector (element)

1. Select the *message category by* pressing the *Isolation* key. The message is displayed in inverted colors.

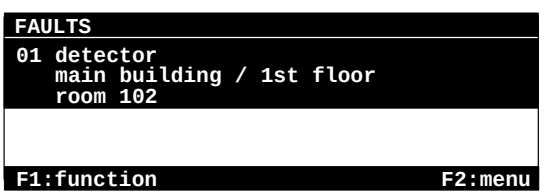
2. Press F1
➜ *The FUNCTION LIST 'element' is displayed*
Press ↓ to select the function «DE–ISOLATE element» and press ok
➜ *The detector is reactivated*

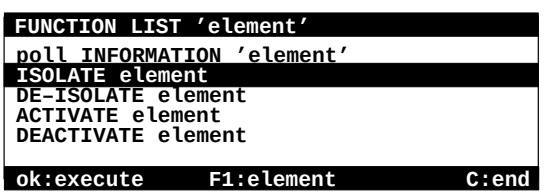


Isolate a detector when a fault message is pending

1. Select the message category by pressing the *Faults* key, then select the desired message by scrolling with ↓, if necessary. The selected message is displayed in inverted colors.

2. Press F1
➜ *The FUNCTION LIST 'element' is displayed*
Press ↓ to select the function «ISOLATE element» and press ok to confirm
➜ *The detector is reactivated*





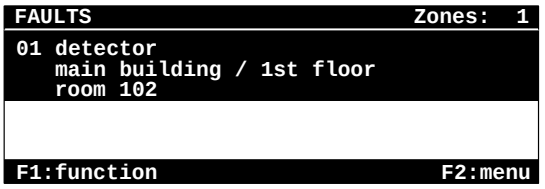
Fault

What to do in case of reported fault messages?

1. Confirm the message by pressing ACK
2. Read the fault location on the display
3. Go to the fault location
4. If the fault cannot be removed call the *Cerberus service organization*

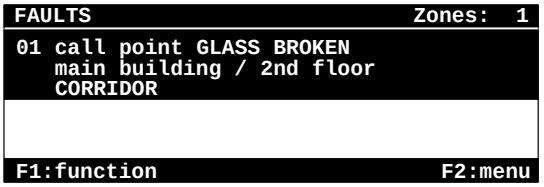
What remedies are available to the user?

Defective automatic detector



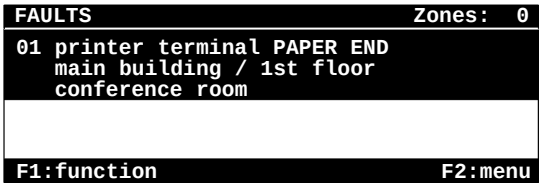
Go to the location of the defective detector,
if the detector is missing:
➜*reinsert the detector*
if the detector is defective:
➜*replace it with a spare detector*
Important: *only replace a defective detector with a unit of the same type.*

Defective manual call point



Go the location of the defective call point,
if the glass pane is broken:
➜*replace the glass pane*
if there is any other defect:
➜*call the Cerberus service organization*

Printer out of paper



Go to the printer,
➜*insert a new paper roll,*
see section «Printer: Paper replenishing» page 31

Mains supply failure

Mains failure in the public supply network:
➜*no action required*
the emergency power battery supplies the system for at least 24.5 hours (depending on the user's specification up to 72 hours)
Mains supply ok:
➜*check the power fuse (main distribution panel of the building) and replace the fuse, if it is blown.*

Note

Isolated detectors also cause a fault message.

For all other faults call the **Cerberus service organization**

Mode ’Detector test’

What is the «Detector test» mode for?

The mode «Detector test» allows individual on-site function testing of automatic fire detectors and manual call points without generating an alarm message.

Automatic fire detectors are actuated with a special detector tester.
Interactive detectors are set to the special parameter set ’Test’ in order to achieve a fast activation with the detector tester.

Manual call points are activated depending on the type:
– From externally with a special test key without breaking the glass pane or opening the housing.
– Simply by opening the door of the manual call point.

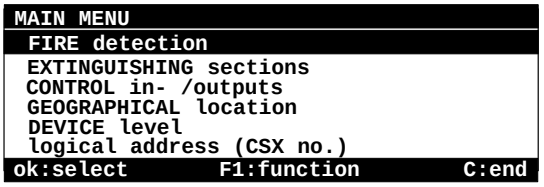
Test alarm is the active state of automatic fire detectors or manual call points in «Detector test» mode. A test alarm ***does not*** generate a danger message in the control console. That means that neither acoustical alarm devices nor remote transmission or any other control functions are activated.
Test alarms are recorded in the event memory and logged spontaneously, if a printer is connected.

How to set detectors or manual call points to mode «Detector test»?
This is normally done on the ***section*** level, but also possible on the ***zone*** level.

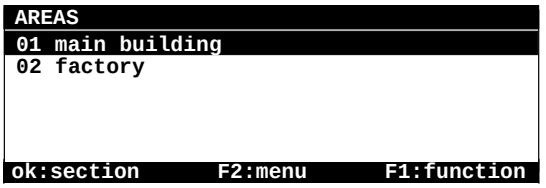
It is ***not*** possible to set an individual fire detector or manual call point (element) to «Detector test».
Zones or ***sections*** set to «Detector test» are displayed spontaneously as a message in the category *’Isolation’*

Set all detector zones within a SECTION to «Detector test»

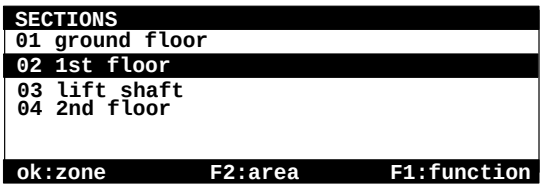
1. Press F2
➜*The MAIN MENU is displayed*
Press ↓ to select the desired menu item.



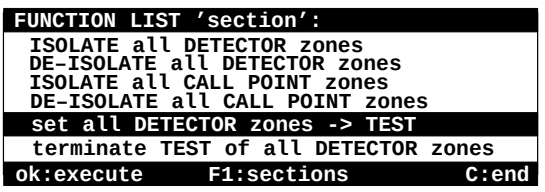
2. Press ok
➜*The AREAS overview is displayed*
Press ↓ to select the desired AREA



3. Press ok
➜*The SECTIONS overview is displayed*
Press ↓ to select the desired SECTION



4. Press F1
➜*The FUNCTION LIST ’section’ is displayed*
With ↓ select the function «set all DETECTOR zones –> TEST» and press ok (automatic detectors only).



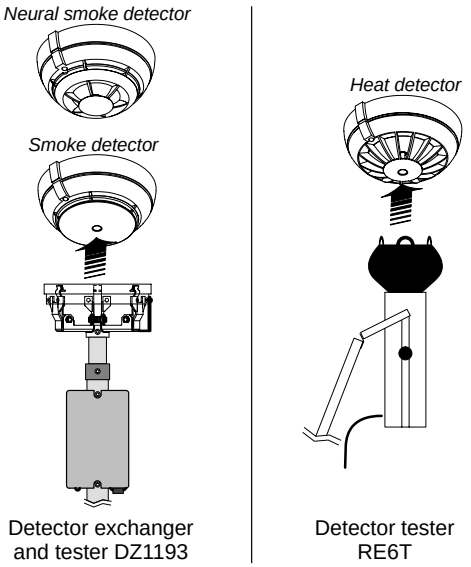
➜*All zones of automatic detectors that belong to this section are set to «Detector test»*
Indicator «Detector test mode» is on
Same procedure for manual call points

Recommendations for detector test

- Perform the function test periodically. The interval of this test is determined by the service engineer.
- Switch only the fire detectors of ***one*** SECTION at a time to «Detector test», never the entire building.
- For manual call points the function test needs to be performed only based on a spot-check.
- Test automatic fire detectors and manual call points of the same room always separately.
- Do not set them to «Detector test» simultaneously.
- After the test work has been completed **immediately cancel** the mode «Detector test».

Testing of automatic *AlgoRex*® detectors

1. Set the SECTION (or zone) to «Detector test» mode.
2. Place the detector tester on the detector. Observe the marking!
   ➜ *For smoke detectors and multisensor smoke detectors the detector exchanger and tester DZ1193 is needed:*
   ➜ *For heat detectors the detector tester RE6T is required:*
   The temperature rise is simulated with a hot-air blower
3. Wait until the response indicator on the detector flashes.
4. Remove the detector tester.
   ➜ *The function test is completed. Go to next detector*



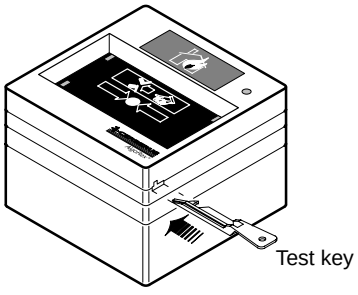
Note

Smoke detectors, multisensor smoke detectors and heat detectors have different housings (see illustration).

Testing of manual call points

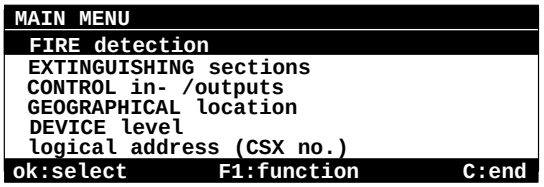
Manual call points DM1101, DM1151 (type KAC)

1. Set the manual call point ZONE to «Detector test» mode.
2. Insert the test key into the opening
   ➜ *«Test alarm» is simulated.*
3. Wait until the response indicator of the manual call point flashes.
4. Remove the test key.
   ➜ *The function test is completed*



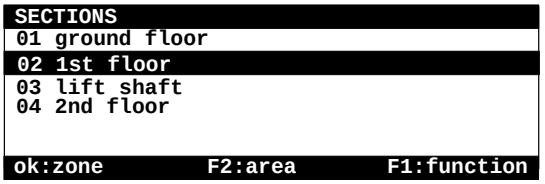
Terminate «Detector test» for all detector zones within a SECTION

1. Press F2
➜ *The MAIN MENU is displayed*



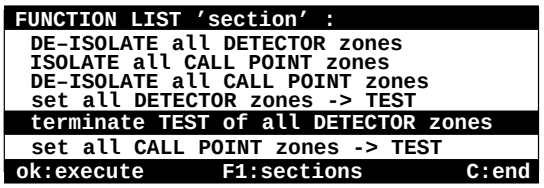
2. Press ok
➜ *The AREAS overview is displayed*
Press ↓ to select the desired AREA

3. Press ok
➜ *The SECTIONS overview is displayed*
Press ↓ to select the SECTION that is on ’detector test’



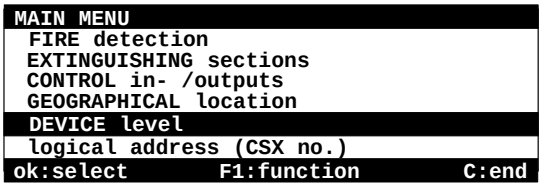
4. Press F1
➜ *The FUNCTION LIST ’section’ is displayed*
With ↓ select the function «terminate TEST of all DETECTOR zones» and press ok

➜ *The «Detector test» is now cancelled for all detector zones of this section*

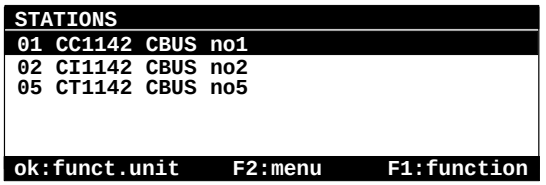


Poll ’test alarms’ in the event memory

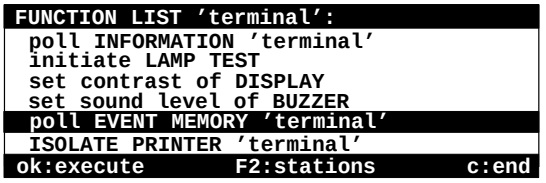
1. Press F2
➜ *The MAIN MENU is displayed*
Press ↓ to select DEVICE level



2. Press ok
➜ *The STATIONS overview is displayed*
Press ↓ to select the desired STATION

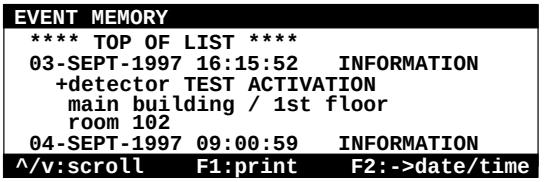


3. Press F1
➜ *The function list Control unit is displayed*
Press ↓ to select ’poll EVENT MEMORY’



4. Press ok
➜ *The function list Event Memory is displayed*
Press ↓ to select ’poll all TEST ALARM’ messages

5. Press ok
➜ *The TEST Alarms are displayed*
use ↑ and ↓ to poll the test alarms



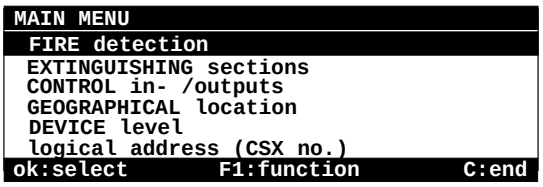
Mode ’Installation test’

What is the mode «Installation test» for?

The mode «Installation test» allows to test the correct function of the whole fire detection system including fire controls, acoustical alarm devices, etc. All functions remain enabled.
Make sure that the remote transmission is isolated or the fire department is informed about the test activities.
In the mode ’Installation test’ ***interactive*** *detectors become more sensitive and respond faster* (response behavior as in mode «Detector test»).
The mode ’Installation test’ shall be carried out only by security staff and serves basically to test the alarm organization and fire controls.
After the test work has been completed **immediately cancel** the mode «Installation test».
Mode «Installation test» is normaly enabled and disabled on the level ’ZONE’ but also possible on the level ’SECTION’

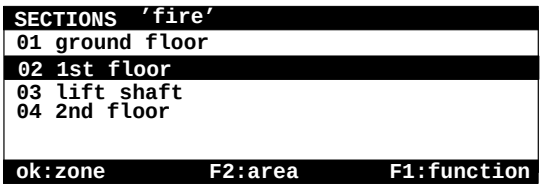
Setting a zone to mode «Installation test»

1. Press F2
➜*The MAIN MENU is displayed*

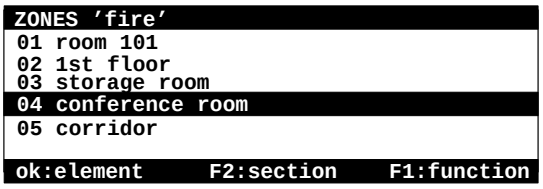


2. Press ok
➜*The AREAS overview is displayed*
Press ↓ to select the desired AREA

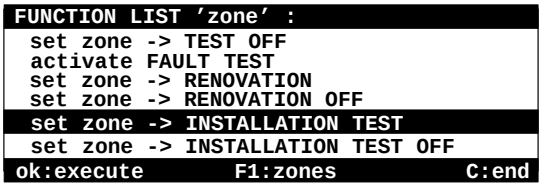
3. Press ok
➜*The SECTIONS overview is displayed*
Press ↓ to select the desired SECTION



4. Press ok
➜*The ZONES overview is displayed*
Press ↓ to select the desired ZONE

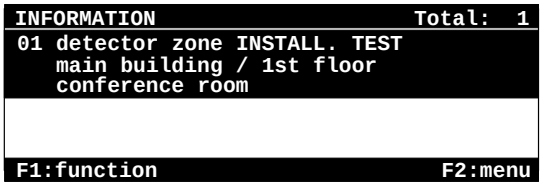


5. Press F1
➜*The FUNCTION LIST ’zone’ is displayed*
With ↓ scroll to the function
«set zone –> INSTALLATION TEST» and press ok
➜*The ZONE is set to mode «Installation test»*

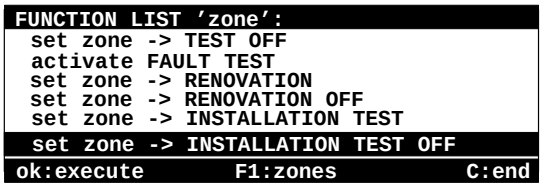


Termination of mode «Installation test» of a zone

1. Press the *Information* key and select the desired message by pressing ↓, if necessary. The selected message is displayed in inverted colors.



2. Press F1
➜ *The FUNCTION LIST ’zone’ is displayed*
With ↓ scroll to the function
«set zone –> INSTALLATION TEST OFF»
and press ok
➜*The ZONE is set to normal operation mode*



Mode ’Renovation’

What is the «Renovation» mode for?

In «Renovation» mode, *automatic detectors are much less sensitive*. This may be required while unusual work is in progress (e.g. during renovation of a building).

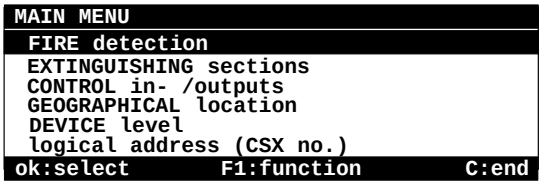
The fire detection system remains working, the remote transmission of alarm and fault messages is enabled. Manual call points work as in normal operation mode.

Detectors in the mode ’Renovation’ are from the insurance and approval point of view ***out of order***. This is why the ’isolation’ message is generated. Mode ’Renovation’ is enabled and disabled on the level ’ZONE’ only.

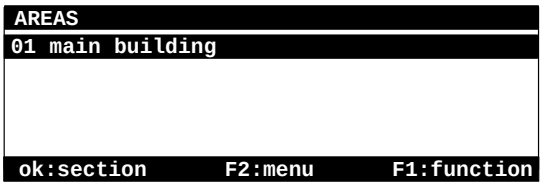
Mode ’Renovation’ is enabled and disabled on the level ’ZONE’ only.

Setting a zone to mode «Renovation»

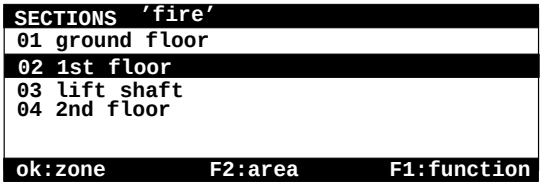
1. Press F2
➜ *The MAIN MENU is displayed*



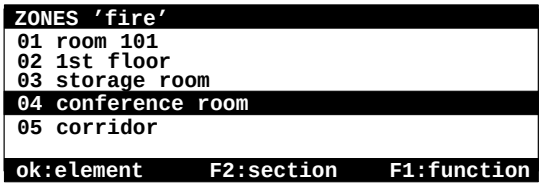
2. Press ok
➜ *The AREAS overview is displayed*
Press ↓ to select the desired AREA



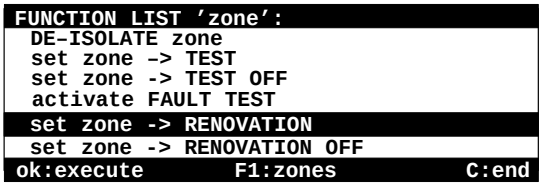
3. Press ok
➜ *The SECTIONS overview is displayed*
Press ↓ to select the desired SECTION



4. Press ok
➜ *The ZONES overview is displayed*
Press ↓ to select the desired ZONE

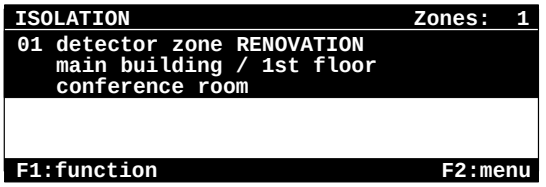


5. Press F1
➜ *The FUNCTION LIST ’zone’ is displayed*
With ↓ scroll to the function
«set zone –> RENOVATION» and press ok
➜ *The ZONE is set to mode «Renovation»*

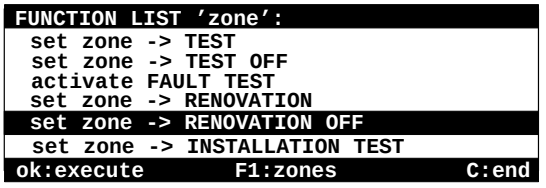


Termination of mode «Renovation» of a zone

1. Press the *Isolation* key and select the desired message by pressing ↓, if necessary. The selected message is displayed in inverted colors.



2. Press F1
➜ *The FUNCTION LIST ’zone’ is displayed*
With ↓ scroll to the function
«set zone –> RENOVATION OFF» and press ok
➜ *The ZONE is set to normal operation mode*



Remote transmission ISOLATE/DE–ISOLATE

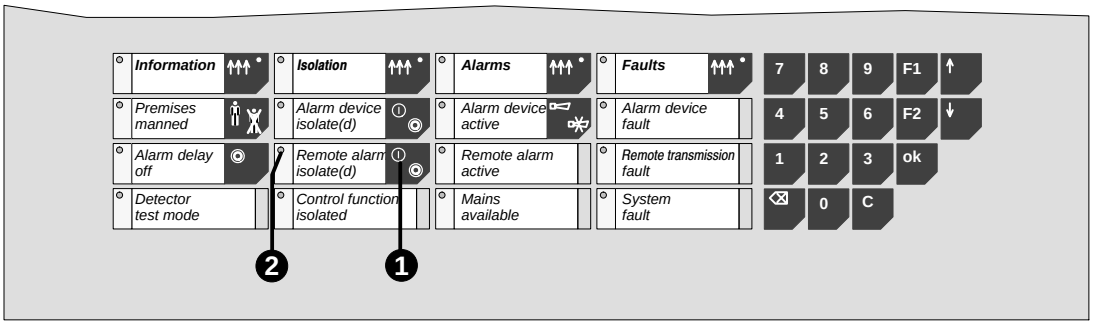
This system is equipped with a remote transmission facility		
for FIRE ALARM	❒	*Yes, destination:* .....
	❒	*No*
for FAULT	❒	*Yes, destination:* .....
	❒	*No*

What is «Remote transmission»?

Remote transmission establishes a transmission path to the fire department in the event of a FIRE ALARM. For FAULT there is normally a separate path established.

When does the remote transmission have to be isolated?

Normally the remote transmission operates in active stand-by. Isolation is needed only in special cases, for example for testing the control functions. For this test the *Remote alarm isolate* key ❶ on the control console has to be pressed. The «ISOLATED» state is signalled by the indicator ❷.



ISOLATING the remote transmission

Press key ❶

➜ *The corresponding isolation message is displayed*

➜ *Indicator ❷ turns on*

➜ *The FIRE ALARM remote transmission is isolated*

```
ISOLATION                          Zones:  0
01 RT 'fire' ISOLATED
   main building
   remote transmission channel FIRE
02 RT 'fire' ISOLATED
   factory
   remote transmission channel FIRE
F1:function                        F2:menu
```

DE–ISOLATING the remote transmission

Press key ❶ (toggling key)

➜ *Indicator ❷ turns off*

➜ *The FIRE ALARM remote transmission is de–isolated and switched to stand-by*

Note

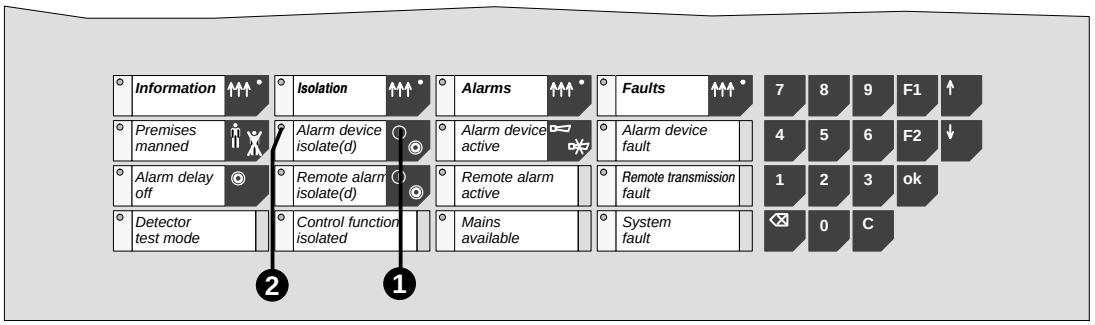
The remote transmission can also be isolated and de–isolated via the menu, separately for «Alarm» and «Fault».

The remote transmission must be periodically checked by activating a manual call point. The fire department must be notified before the test is initiated.

Alarm devices ISOLATE/DE–ISOLATE

When do alarm devices (horns, sirens, etc.) have to be isolated ?

Normally the alarm devices operate in active stand-by. Isolation is needed only in special cases, for example for testing the control functions.



ISOLATING the alarm devices

Press key ❶

➜ *The corresponding isolation message is displayed*

➜ *Indicator ❷ turns on*

➜ *The alarm devices (warning system AND external bell) are isolated*

```
ISOLATION                          Zones:  0
01 external bell ISOLATED
   main building
   external horn (horn II)
02 warning system ISOLATED
   main building
   internal horn (horn I)
F1:function                        F2:menu
```

DE–ISOLATING the alarm devices

Press key ❶ (toggling key)

➜ *Indicator ❷ turns on*

➜ *The alarm devices are de–isolated and switched to stand-by*

Note

The alarm devices can also be isolated and de–isolated via the menu.

Printer ISOLATE/DE–ISOLATE

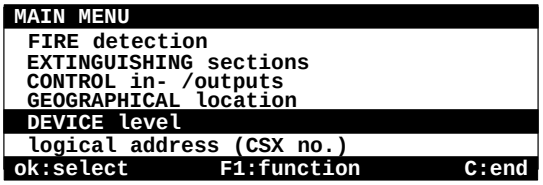
This system is equipped with a printer	❒ *Yes*
	❒ *No*

When does the printer have to be ISOLATED?

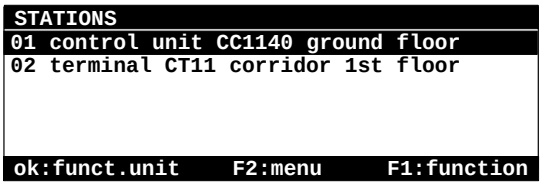
Normally the printer (if installed) operates in active stand-by. Isolation is needed only in special cases (for example to change the paper). The printer can be isolated and de–isolated via the menu. The «ISOLATED» state is shown on the display.

ISOLATING the printer

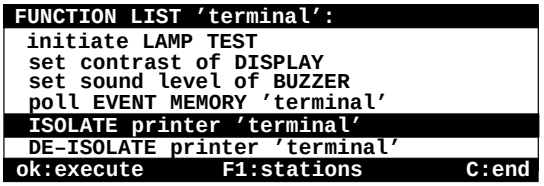
1. Press F2
➜*The MAIN MENU is displayed*
With ↓ choose the function «DEVICE level»



2. Press ok
➜*The STATIONS overview is displayed*
Press ↓, if necessary, to select the desired station (control unit or terminal)

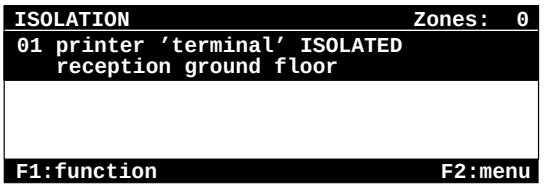


3. Press F1
➜*The FUNCTION LIST 'control unit' is displayed*
Press ↓ to select «ISOLATE printer» and press ok
➜*The printer is isolated*

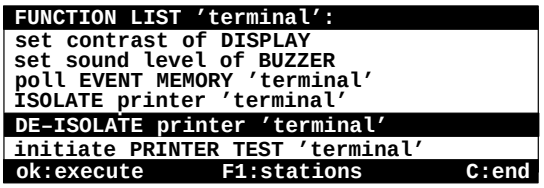


DE–ISOLATING the printer

1. Press the *Isolation* key and select the desired message by pressing ↓, if necessary. The selected message is displayed in inverted colors.

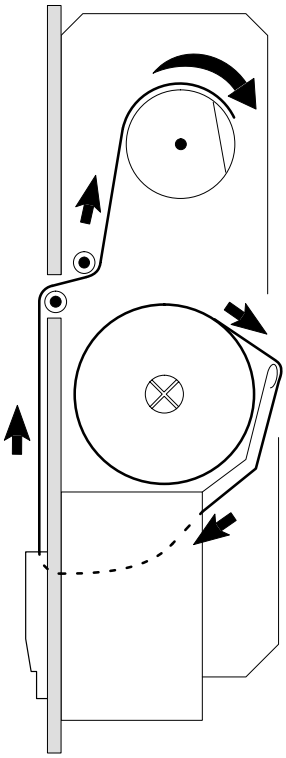


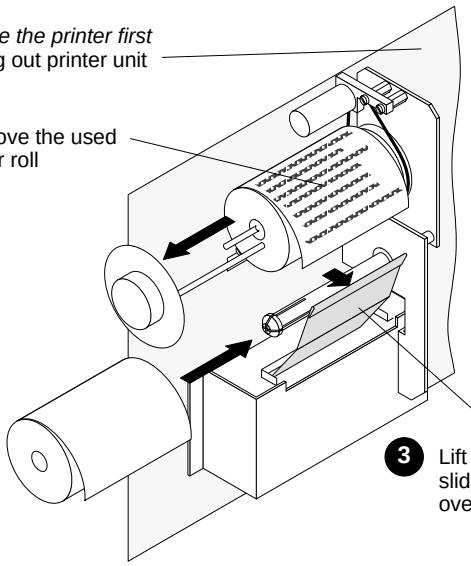
2. Press F1
➜*The FUNCTION LIST 'control unit' is displayed*
With ↓ select the function «DE–ISOLATE printer» and press ok
➜*The printer is de–isolated*



Printer B2Q191: paper replenishing

Valid for this system	❒ *Yes, system equipped with printer B2Q191* ❒ *No printer of this type installed*

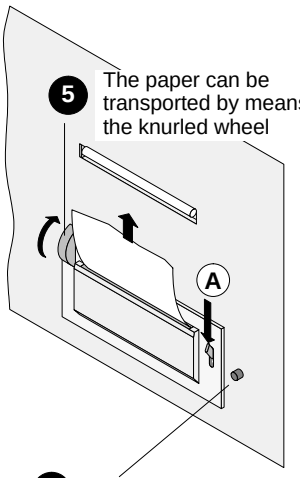




1 *Isolate the printer first*
Swing out printer unit

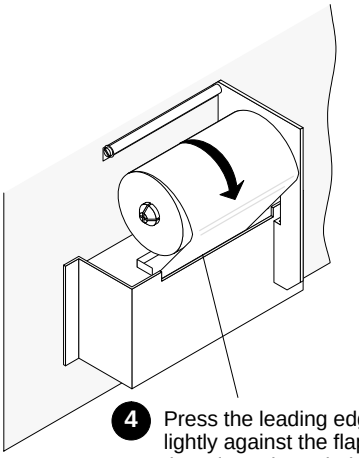
2 Remove the used paper roll

3 Lift the paper flap and slide a new paper roll over the spindle

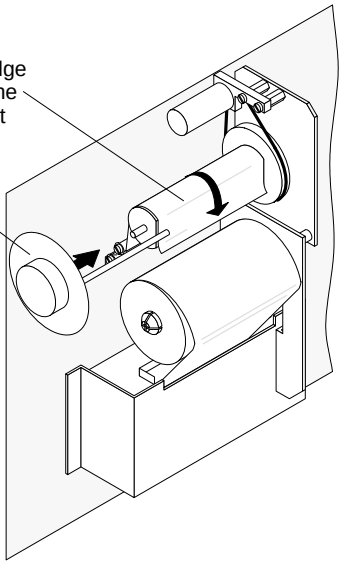


5 The paper can be transported by means of the knurled wheel

7 Press the winding up key
De–isolate the printer



4 Press the leading edge of the paper lightly against the flap and feed it into the printer through the slot.
Push down the release lever **A** to insert the paper.



6 Thread the leading edge of the paper around the take-up roller and fix it with the clamp

Print intensity

If the print intensity is too low, call the Cerberus service organization.

Spare paper rolls

Cerberus part no. 379 977 (= 4 pcs.)
or – JUJU TP 50KS-A
– HONSHU PS 65 B1
– MITSUBISHI F-200 U7X

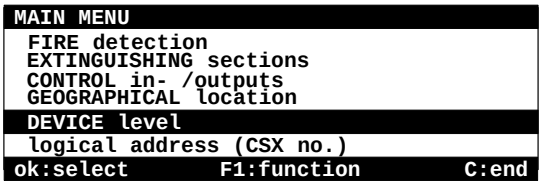
Lamp test

What is the «Lamp test» used for?

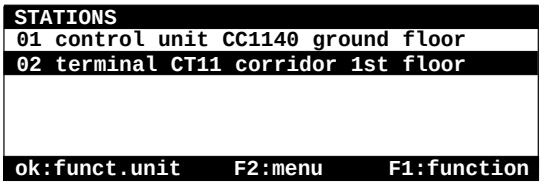
For testing the correct functioning of all indicators (LEDs), the display, and the alarm buzzer.
All visual and audible devices of the control console are activated for a few seconds.

Initiate lamp test

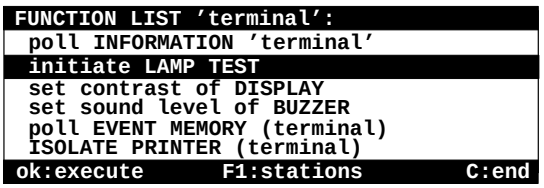
1. Press F2
➜ *The MAIN MENU is displayed*
With ↓ choose the function «DEVICE level»



2. Press ok
➜ *The STATIONS overview is displayed*
Press ↓ to select the desired station (terminal)



3. Press F1
➜ *The FUNCTION LIST 'terminal' is displayed*
Press ↓ to select «initiate LAMP TEST» and press ok
➜ *The lamp test is initiated*



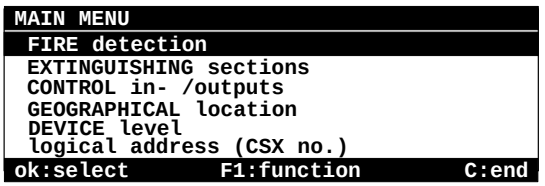
Alarm counter

What is the purpose of polling the alarm counter?

The alarm counter shows the number of past alarm events.

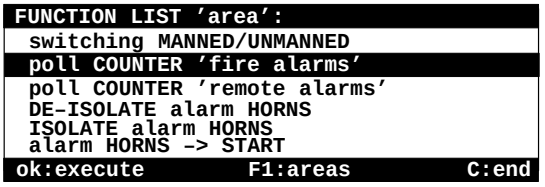
Polling alarm counter

1. Press F2
➜ *The MAIN MENU is displayed*

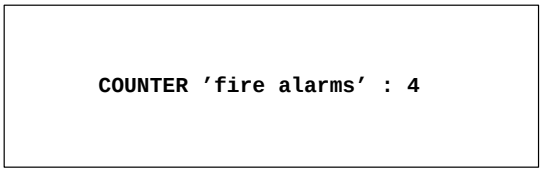


2. Press ok
➜ *The AREAS overview is displayed*
Press ↓ to select the desired AREA

3. Press F1
➜ *The FUNCTION LIST 'area' is displayed*
Press ↓ to select «poll COUNTER 'fire alarms'» or «poll COUNTER 'remote alarms'» and press ok



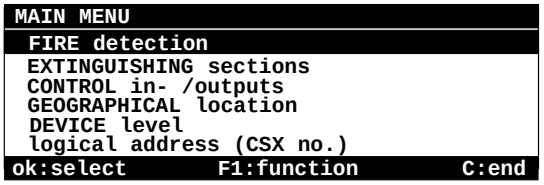
➜ *The number of alarms is displayed*



Event memory

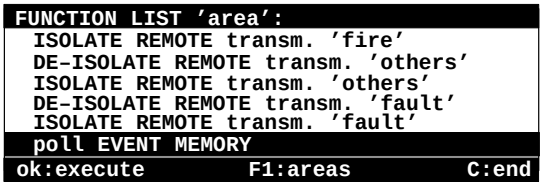
Polling event memory of an 'AREA'

1. Press F2
➜ *The MAIN MENU is displayed*

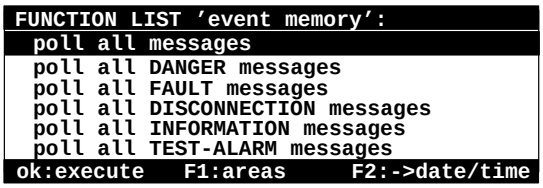


2. Press ok
➜ *The AREAS overview is displayed*
Press ↓ to select the desired AREA

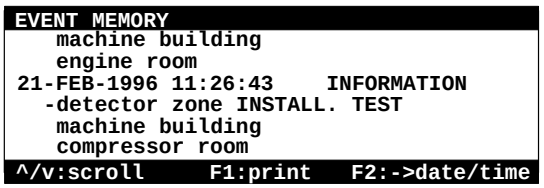
3. Press F1
➜ *The FUNCTION LIST 'area' is displayed*
Press ↓ to select «poll EVENT MEMORY»



4. Press ok
➜ *The FUNCTION LIST 'event memory' is displayed*
Press ↓, if necessary, to select the desired function and press ok



➜ *The display now shows the desired list.*
Either the latest entry is visible completely, older entries (if existing) can be scrolled by pressing ↑



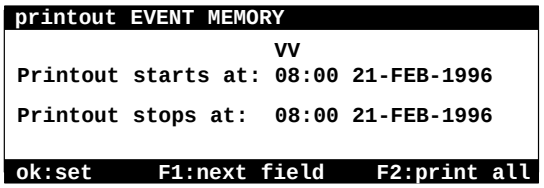
Note

with F2 :–>date/time a entry of a particular date/time can be selected and displayed.

Printing selected entries of the event memory

Steps **1..4** are identical to «Polling event memory of an area» as described above

5. Press F1
➜ *The 'printout EVENT MEMORY' menu is displayed*
Press F2 to print all entries ***or***
select desired range of date and time to print out particular events.



Use ↑ and ↓ to set date and time and press F1 to select the next field.
Press ok to print out selected entries.

➜ *During the print out procedure on the bottom line a flashing"printing" in inverted coulors is displayed.*

Note

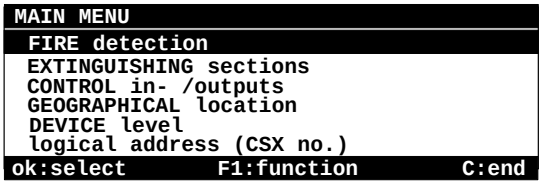
The event memory can only be printed out, if the printer is connected to the operated terminal.

Set clock and date

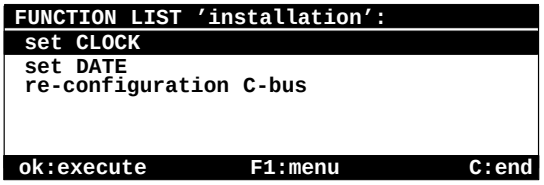
Normally the date and time do not have to be corrected!
The date and time are set by the service engineer when installing the system.
➜ The summer/winter time changeover is performed automatically.
➜ Time and date are always displayed when the password is entered.

Setting the clock

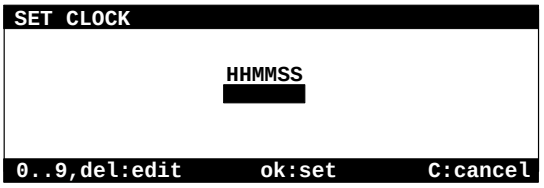
1. Press F2
➜*The MAIN MENU is displayed*



2. Press F1
➜*The FUNCTION LIST 'installation' is displayed*

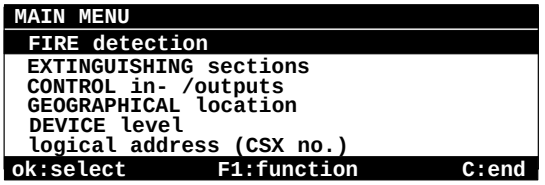


3. Press ok
➜*An input prompt is displayed*
Enter the current time and press ok
(2 digits each for hours / minutes / seconds)
➜*The new time is read in and loaded*

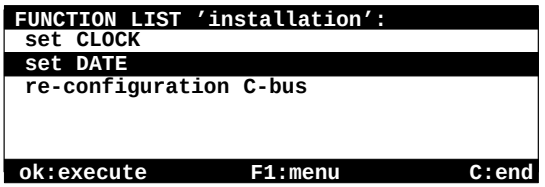


Setting the date

1. Press F2
➜*The MAIN MENU is displayed*



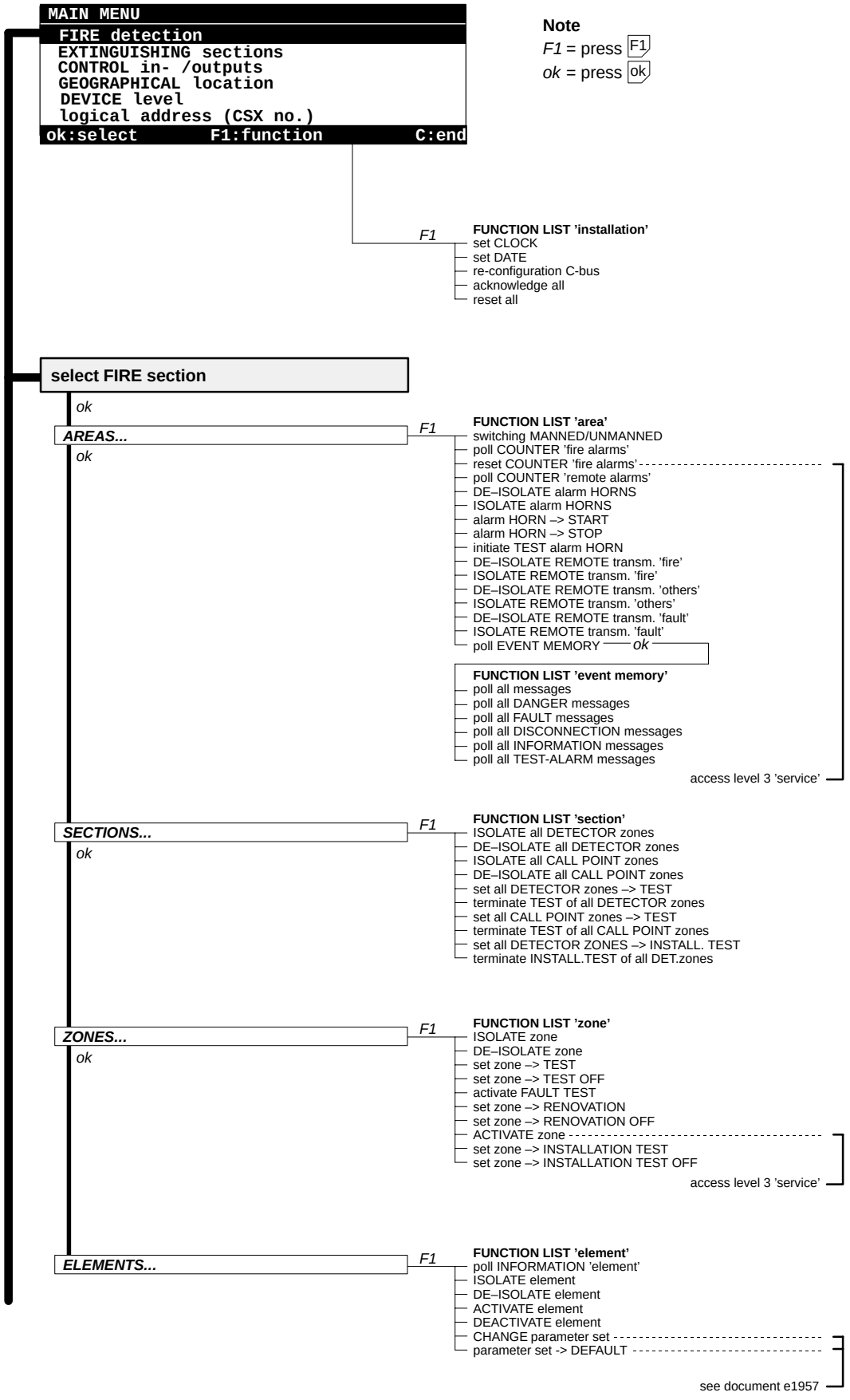
2. Press F1
➜*The FUNCTION LIST 'installation' is displayed*
Press ↓ to select the function «set DATE»



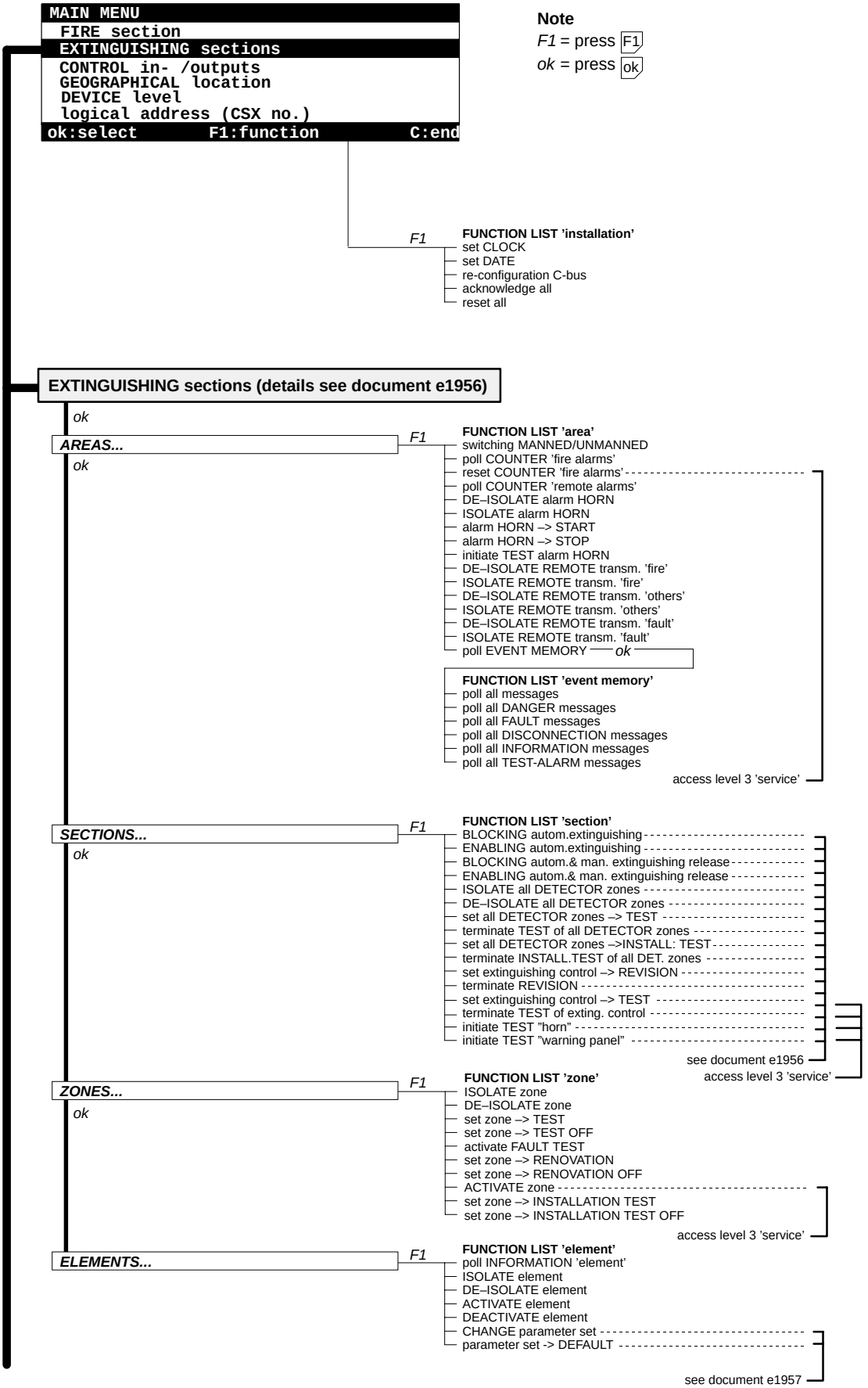
3. Press ok
➜*An input prompt is displayed*
Enter the current date and press ok
(2 digits each for day / month / year)
➜*The new date is read in and loaded*

Overview operating menus

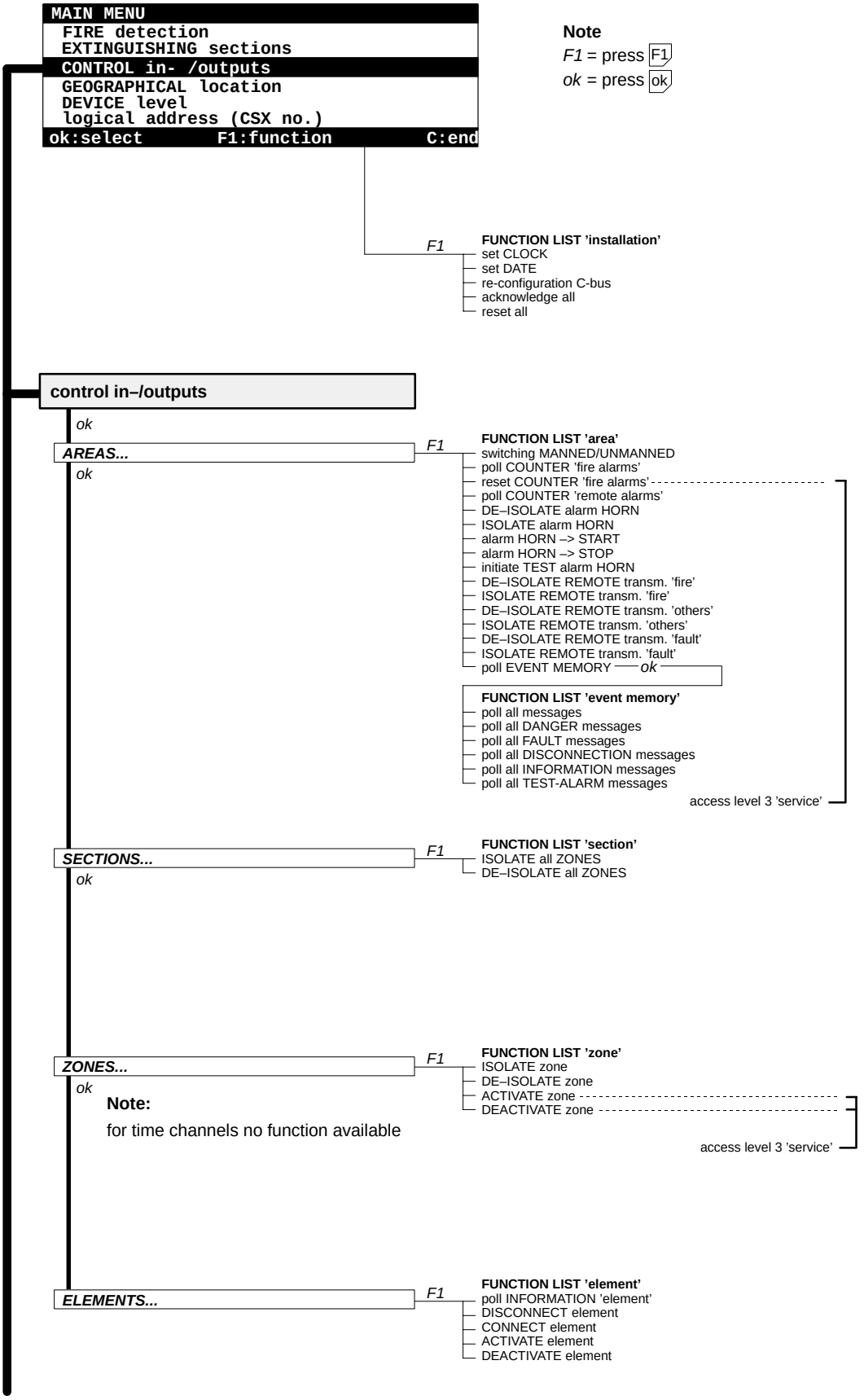
To enter 'MAIN MENU' press F2



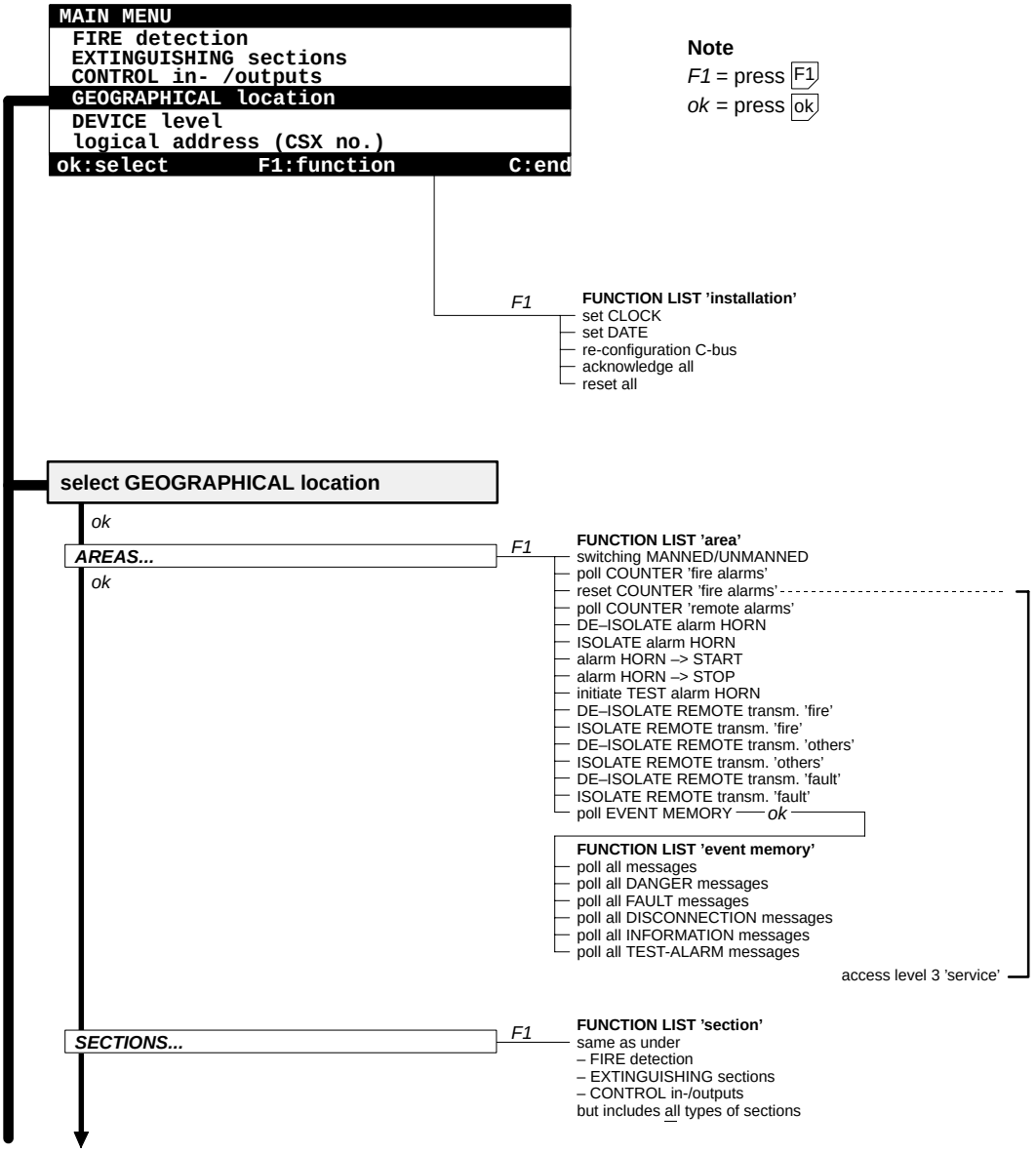
To enter 'MAIN MENU' press F2



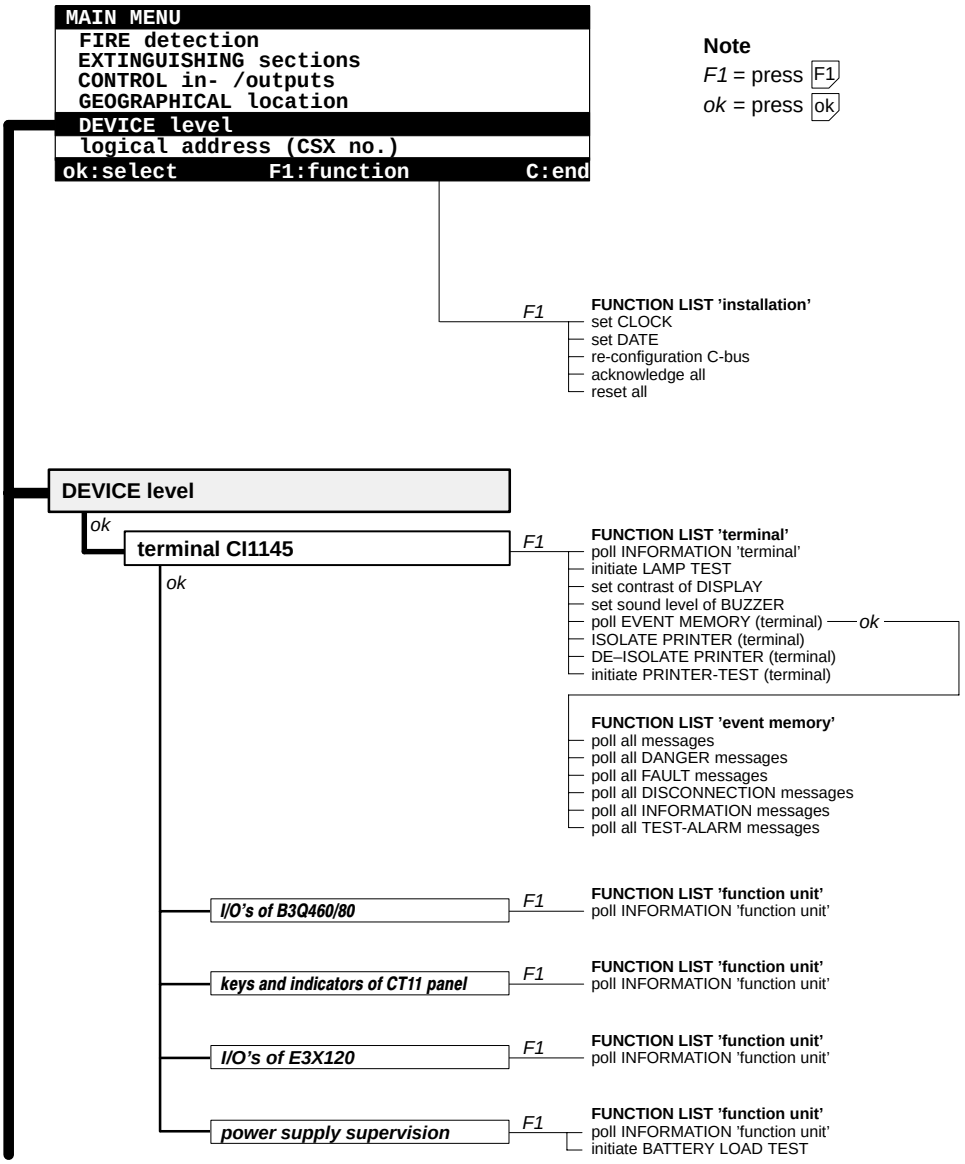
To enter 'MAIN MENU' press F2



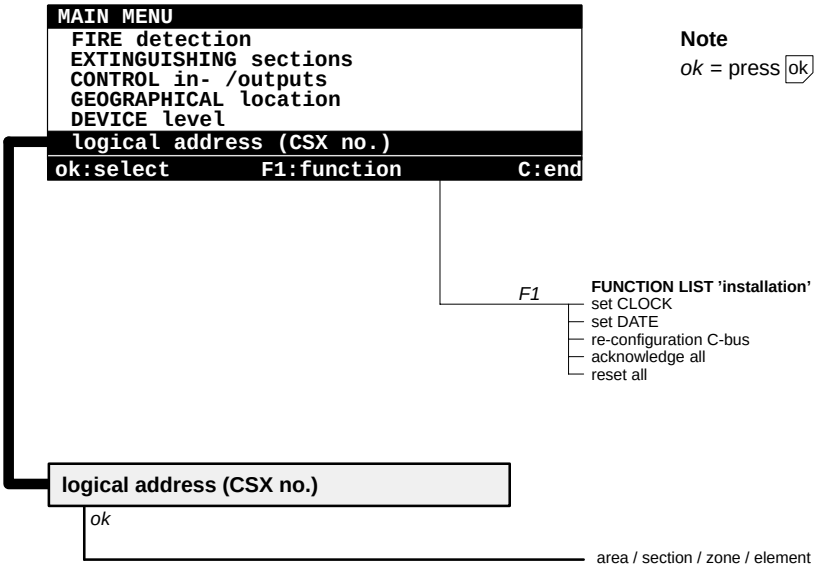
To enter 'MAIN MENU' press F2



To enter 'MAIN MENU' press F2



To enter 'MAIN MENU' press F2



Note
ok = press ok

Siemens Building Technologies AG
Cerberus Division
CH-8708 Männedorf
Alte Landstrasse 411
Tel. +41 1 - 922 61 11
Fax +41 1 - 922 64 50
www.cerberus.ch

Cerberus
Security
for People
and Assets